cidetec
surface engineering

Informe Técnico

Búsqueda de tablas de compatibilidad química para los materiales acero inox A316, aluminio, caucho EPDM y termoplástico PA6

Cliente: ***JABE S.L.***

Fecha: ***16 de marzo de 2018***

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Área de negocio: ***INGENIERIA DE SUPERFICIES***

tabla de PH:
agua de mar: 8-8,2

ÍNDICE

1. INTRODUCCIÓN

La empresa **JABE S.L.**, a través de **D. Edorta Caño**, se puso en contacto con **Fundación CIDETEC** para la búsqueda de tablas completas y actualizadas de compatibilidad química de diferentes materiales (aluminio, acero inoxidable 316, termoplático PA6, cauchos EPDM), con sustancias químicas orgánicas e inorgánicas.

2. DESCRIPCIÓN DE LAS TAREAS REALIZADAS

Se realizó una búsqueda sobre la compatibilidad química de el mayor numero de sustancias posible con los materiales de interés para la empresa JABE: aluminio, acero inoxidable 316, termoplástico PA6, cauchos EPDM. Toda la información recogida se compliló en tablas individualizadas para cada uno de los materiales.

3. RESULTADOS OBTENIDOS

Los resultados se han reflejado en tablas individualizadas para cada uno de los materiales. Dichas tablas se han plasmado en formato PDF y nombrado como anexos al informe. Dichos anexos se han numerado del 1 al 4, siendo su contenido el que se muestra en la lista a continuación:

- Anexo 1: Tabla de compatibilidad química para Acero inoxidable
- Anexo 2: Tabla de compatibilidad química para Aluminio
- Anexo 3: Tabla de compatibilidad química para EPDM
- Anexo 4: Tabla de compatibilidad química para Poliamida 6

Los anexos se entregan en conjunto con el informe.

4. CONFIDENCIALIDAD

CIDETEC se compromete a mantener en secreto toda la información y documentación técnica que pueda recibir para la realización de este trabajo, así como toda la información relativa a la ejecución y resultados del mismo.

ANEXO 1:Tabla de compatibilidad química para Acero Inoxidable

Valoración Empresa Outokumpu Fortinox, S.A. https://www1.etsia.upm.es/acreditacion2015/Evidencias_IAL/.../tuberias%201-14.pdf

* Recomendado
\+ Leve ataque (uso con precaución)
x Doubtful
\- No ensayado
! Corrosión por picado en varias condiciones
!! Ataque en presencia de H2SO4

Valoración Empresa SIMETAL https://www.simetal.es/pdf/AcerosInoxidables.pdf

A Excelente resistencia: pérdida de peso inferior a 25 mg/dm2 (24 h.).
B Resistencia generalmente aceptable: pérdida de peso inferior a 25 mg/dm2 (24 h.).
C Resistencia mediocre o mala: pérdida de peso superior a 250 mg/dm2 (24 h.).

Valoración Empresa ALACER MAS http://www.alacermas.com/productos.php?categoria=1&subcategoria=152&gama=1&producto=199

A Bueno. Material completamente resistente. Pérdida de peso correspondiente a <0,1 gr/m^2.hora. Perdida de espesor correspondiente a <0,11
B Regular. Algún ataque. Material utilizado en algunos casos. Pérdida de peso correspondiente a 0,1-1 gr/m2.hora. Perdida de espesor correspondiente a 0,11-1,1 mm/año
C Malo. Excesivo ataque. El material no debe utilizarse. Pérdida de peso correspondiente a >1 gr/m2.hora. Perdida de espesor correspondiente a >1,1 mm/año

Valoración Empresa SRC http://srcsl.com/catalogoPDFs/AreaTecnica/TABLAS_CORROSION_INOX.pdf
Buena
Regular
Mala

Sustancia Química	Concentración	Temperatura	AISI 316	AISI 304	AISI 430	AISI 410
Aceite de brea y pino		20	A	A	--	--
Aceites crudos		Frio y caliente	*!!	*!!	*!!	-
Aceites crudos (a base de asfalto y parafina)		20	A	A	A	--
Aceites crudos (a base de asfalto y parafina)		Caliente	A	A	A	--
Aceites comestibles	-	ebull.	buena	buena		
Aceite combustible		Caliente	*	*	-	-
Aceite de lino		200	A	A		
Aceite de linaza		20 y caliente	A	A	A	A
Aceite de linaza (3% H2SO4)		200	A	A	--	--
Aceite de brea de pino		20	A	A	--	--
Aceite de engrase		50	A	A		
Aceites lubricantes		20	A	A	A	A
Aceites lubricantes		Caliente	A	A	A	A
Aceites minerales	-	50º	buena	buena		
Aceites vegetales	-	ebull.	buena	buena		
Aceites vegetales y minerales		20	A	A	A	A
Aceites vegetales y minerales		Caliente	A	A	A	A
Acetaldehído	100	61	A	A	--	--
Acetona	todas	20º	buena	buena	*	_
Acetona		Ebullición	*	*	*	_
Acetona		20	A	A	B	B
Acetona		Hirviente	A	A	--	C
Acetileno		25	*	*	*	_
Acido acético	20%	20º - ebull.	buena	buena		
Acido acético	50%	20º	A	A		
Acido acético	50%	ebull.	A/B	B		
Acido acético	concent.	70º	buena	buena		
Acido acético	concent.	ebull.	buena	regular		
Acido acético	20%	20	A	A	A	C
Acido acético	20%	hirviente	A	A	--	--
Acido acético	50%	20	A	A	A	C
Acido acético	50%	hirviente	A	B	--	--
Acido acético	80%	20	A	A	A	--
Acido acético	80%	85	A	A	C	--
Acido acético	80%	hirviente	B	B	C	--
Acido acético	100%	20	A	A	A	C
Acido acético	100%	85	A	A	C	--
Acido acético	100%	hirviente	C	C	C	--
Anhídrido acético	90%	20	A	A	B	--
Anhídrido acético	90%	hirviente	A	B	C	--
Anhídrido acético	90 aireado	85	B	C	--	--
Anhídrido acético	60%	85	A	A	--	--
Acético-Vapores del ácido	30	20	A	B	--	C

Sustancia Química	Concentración	Temperatura	AISI 316	AISI 304	AISI 430	AISI 410
Acético-Vapores del ácido	30	calientes	B	B	--	--
Acético-Vapores del ácido	100	20	A	B	--	C
Acético-Vapores del ácido	100	calientes	B	C	--	--
Cloruro de acetilo		20	B	B	--	--
Cloruro de acetilo		hirviente	B	B	--	--
Acetofenona	66	150	A	A	--	--
Acido acrílico	96	25	A	A	--	--
Acido bórico	todas	20º - ebull.	buena	buena		
Acido bromhídrico diluído		cualquier temp.	C	C		
Acido butítrico concentrado		Ebullición	A	A		
Acido carbónico			A	A		
Acido cianhídrico	sol. Satur	20º	buena	buena	+	-
Acido clorhídrico	1%	20º	buena	regular		
Acido clorhídrico	1%	50º	regular	mala		
Acido clorhídrico	1%	ebull.	mala	mala		
Acido clorhídrico	más de 1%	20º - ebull.	mala	mala		
Acido clorhídrico	5%	20	C	C		
Clorhídrico (gas) seco		25	+	+	+	-
Clorhídrico (gas) húmedo		25	*	*	*	-
Acido clórico		20	B	C		
Acido cloroacético diluido		20	C	C		
Acido esteárico		20	A	A		
Acido esteárico		100	A	A		
Acido esteárico		300	A	B		
Acido fluorhídrico	5%	20	C	C		
Agua de mar		20	A	A/B	+!	x
Agua oxigenada		20	A	A	B	B
Agua Aceitosa		20	A	A	A	A
Agua Aceitosa		caliente	A	A	A	A
Agua Dulce		caliente	A	A	--	--
Aguas Fecales		20	A	B	--	--
Agua de Mar		20	A	B	C	C
Agua de mina (Acida)		20	A	A	A	B
Agua Pesada			A	A	--	--
Agua Potable		20	A	A	A	B
Agua potable	-	20º - ebull.	buena	buena		
Agua (clorada) saturada		25	+!	*	*	-
Agua regia	-	20º	mala	mala		
Aguardiente		20	A	A		
Aire	-	-	buena	buena		
Alcalino-Licor	20	hirviente	A	A	--	--
Alcanfor		20	A	A	A	B
Alcohol etílico	-	20º - ebull.	buena	buena	*	-
Alcohol metílico	-	20º - ebull.	buena	buena	+	-
Alcohol - Etílico		20	A	A	A	B
Alcohol - Etílico		hirviente	A	A	A	--
Alcohol - Metílico		20	A	A	A	A
Alcohol - Metílico		65	B	B	B	--
Alkaform - Anestésico		20	A	A	C	C
Aldehido fórmico:	Solución 40%	Ebullición	A	A		
Almidón		20	A	A	A	A
Alquitrán			A	A	--	--
Aluminio	fundido	750	C	C	C	C
Aluminio (Acetato)	saturado	20	A	A	--	--
Aluminio (Acetato)	saturado	hirviente	A	A	--	--
Aluminio (Cloruro)	5	20	C	C	C	C
Aluminio (Cloruro)	saturado	20	C	C	C	C
Aluminio (Floruro)	5	20	B	C	C	C
Aluminio (Floruro)	saturado	20	B	C	C	C
Aluminio (Hidróxido)	saturado	20	A	A	A	--
Aluminio y Potasio -Sulfato doble de (alumbre)	2	20	A	A	A	B
Aluminio y Potasio -Sulfato doble de (alumbre)	10	20	A	A	B	--
Aluminio y Potasio -Sulfato doble de (alumbre)	10	hirviente	A	A	B	--
Aluminio y Potasio -Sulfato doble de (alumbre)	saturado	20	A	B	C	--
Aluminio y Potasio -Sulfato doble de (alumbre)	saturado	hirviente	B	B	C	--
Aluminio- Sulfato de	5	65	A	A	--	--
Aluminio - Sulfato de	10	20	A	A	C	C
Aluminio- Sulfato de	10	hirviente	A	B	C	--

Sustancia Química	Concentración	Temperatura	AISI 316	AISI 304	AISI 430	AISI 410
Aluminio- Sulfato de	saturado	20	A	A	C	C
Aluminio - Sulfato de	saturado	hirviente	A	B	C	--
Aluminio (Sulfato + 1% de H2SO4)	saturado	20	A	B	--	C
Aluminio (Sulfato + 1% de Na2CO3)	saturado	20	A	A	--	B
Aluminio		Fundido	*	*	*	*
Aluminio (Fluoruro)		25	+	x	x	-
Aluminio (Cloruro)	25%	25	+	x	x	-
Aluminio (Cloruro)	Saturado	25	-	x	x	-
Aluminio (hidróxido)	Saturado	25	*	*	*	-
Aluminio (Sulfato)	10%	25	*	*!	x	-
Aluminio (Sulfato)	Saturado	25	*	*!	x	-
Aluminio (Sulfato)	10%	Ebullición	*!	*!	x	-
Aluminio (Sulfato)	Saturado	Ebullición	*!	*!	x	-
Amoniaco	gas	20º - 100º	buena	buena	*	-
Amoniaco	sol. Acuosas	20º - ebull.	buena	buena	*	-
Amónico - Bromuro	5	20	B	C	--	--
Amónico - Bromuro	saturado	20	A	B	--	--
Amónico - Carbonato	1 y 5	20	A	A	A	B
Amónico - Carbonato	saturado	20	A	A	A	B
Amónico - Cloruro	1	20	A	B	--	--
Amónico - Cloruro	5	20	A	B	--	--
Amónico - Cloruro	10	hirviente	A	B	--	--
Amónico - Cloruro	20	hirviente	A	B	--	--
Amónico - Cloruro	28	hirviente	A	C	--	--
Amónico - Cloruro	50	hirviente	A	C	--	--
Amónico - Cloruro	saturado	20	A	B	--	--
Amónico - Fosfato	5	20	A	A	A	B
Amónico - Fosfato	saturado	20	A	A	A	--
Amónico - Hidróxido	todas conc.	20	A	A	A	B
Amónico - Monofosfato	saturado	20	A	A	A	B
Amónico - Nitrato (agitado y aireado)	todas conc.	20	A	A	A	B
Amónico - Nitrato	saturado	hirviente	A	A	A	B
Amónico - Nitrato (disuelto en H2SO4)		60	A	A	--	--
Amónico - Nitrato		120	A	A	--	--
Amónico - Oxalato	5	20	A	A	A	B
Amónico - Oxalato	saturado	20	A	A	--	B
Amónico - Perclorato	10	hirviente	A	A	--	--
Amónico - Persulfato	5	20	A	A	B	B
Amónico y Potásico -Sulfato Doble de (ligeramente amoniacal)	saturado	95	A	A	--	C
Amónico - Sulfato (agitado)	1 y 5	20	A	A	A	B
Amónico - Sulfato (aireado)	1 y 5	20	A	A	A	B
Amónico - Sulfato	10	20	A	A	--	--
Amónico - Sulfato	10	hirviente	A	A	--	--
Amónico - Sulfato	saturado	20	A	A	--	--
Amónico - Sulfato	saturado	hirviente	A	B	--	--
Amónico - Sulfato (+0,5% H2SO4)	saturado	20	A	B	--	C
Amónico - Sulfato (+ 5% H2SO4)	saturado	20	--	C	--	C
Amónico - Sulfito	sturado	20	A	A	--	--
Amónico - Sulfito	saturado	hirviente	A	A	--	--
Amoniaco (bicarbonato)		25º y caliente	*	*	*	-
Amoniaco (carbonato) aireado	1% y 5%	25	*	*	*	*
Amoniaco (carbonato) agitado	1% y 5%	25	*	*	*	*
Amoniaco (cloruro)	1%	25	*	*	*	-
Amoniaco (cloruro)	10-28-50%	Ebullición	*!	*!	-	-
Amoniaco (nitrato)	Todas conc	25	*	*	*	-
Amoniaco (nitrato)	Saturado	Ebullición	*	*	*	*
Amoniaco (Oxalato)	5%	25	*	*	*	*
Amoniaco (Persultafo)	5%	25	*	*	*	*
Amoniaco (perclorato)	5%	Ebullición	*	*	*	-
Amoniaco (fosfato)	5%	25	*	*	*	-
Amoniaco (fosfato)	Saturado	25	*	*	*	-
Amoniaco (sulfato)	1% y 5%	25	*	*	*	-
Amoniaco (sulfato)	10%	Ebullición	*!	*!	-	-
Amoniaco (sulfato)	Saturado	Ebullición	*!	*!	-	-
Amoniaco (sulfuro)		25-Ebullición	*	*	-	-
Anilina	3%	25	*	*	*	-
Anilina	con crudo	25	*	*	*	-
Anilina (hidrocloruro)		25	x	x	x	x
Anilina	3	20	A	A	A	B
Anilina Cruda	concentrada	20	A	A	A	--
Anilina - Hidrocloruro de	5	20	C	C	C	C
Antibióticos		20	A	A	--	--
Antimonio (tricloruro)		25	x	x	x	x
Antimonio	fundido	600	C	C	--	--

Sustancia Química	Concentración	Temperatura	AISI 316	AISI 304	AISI 430	AISI 410
Antimonio - Tricloruro de	saturado	20	C	C	C	--
Arsénico - Acido		65	A	A	--	--
Arsénico - Acido		110	--	B	--	--
Arsenioso - Anhidrido		20	A	A	A	B
Arsénico		65	*	*	-	-
Atmósfera marina	-	-	buena	regular		
Azúcar en solución y jarabes	-	20º - ebull.	buena	buena		
Azufre fundido	-	130º	buena	buena		
Azufre	seco	20	A	A	A	B
Azufre	mojado	20	A	B	B	C
Azufre (dióxido) Seco		300	*	*	*	-
Azufre (dióxido) Húmedo		25	*	*	+	-
Azufre (cloruro)		Frío y caliente	x	x	x	-
Bario - Carbonato de	solución	20	A	A	A	B
Bario - Cloruro de	5	20	A	B	--	--
Bario - Cloruro de	saturado	20	A	A	--	--
Bario - Cloruro de	saturado	caliente	A	B	--	--
Bario - Hidrato de	saturado	20	A	A	A	A
Bario - Nitrato de	saturado	caliente	A	A	--	--
Bario - Sulfato de	saturado	20	A	A	A	--
Bario (carbonato)		25	*	*	*	-
Bario (cloruro)	5%	25	*	*!	+!	-
Bario (cloruro)	Saturado	25	*	*!	*!	-
Bario (cloruro)	Sol. Acuosa	Caliente	*!	*!	-	-
Bario (nitrato)	Sol. Acuosa	Caliente	*	*	-	-
Bario (sulfato)		25	*	*	*	-
Bario (sulfuro)	Sol. Acuosa	25	*	*	*	*
Baños fotográficos de revelado	-	20º	buena	buena		
Barniz		20	A	A	A	A
Barniz		caliente	A	A	B	B
Beceno		25	*	*	*	*
Benceno (del alquitrán de hulla y del petróleo bruto)		20	A	A	--	--
Benceno (del alquitrán de hulla y del petróleo bruto)		hirviente	A	A	--	--
Bezoico (ácido)		25	*	*	*	-
Benzoico - Acido		20	A	A	A	B
Benzol		Ebullición	A	A		
Benzol		20	A	A	A	B
Benzol		caliente	A	A	A	B
Bicarbonato de sodio	solución	20	A	A	--	--
Blanqueo - Polvos para el (secos)			A	C	C	C
Bórax	5	caliente	A	A	A	B
Borax	5%	Caliente	*	*	*	*
Bórico - Acido	5	20	A	A	A	B
Bórico - Acido	5	caliente	A	A	A	B
Bórico - Acido	70	caliente	C	C	C	C
Bromo (metaloide) gaseoso		20	C	C	C	C
Bromo líquido			C	C	C	C
Bromo		25	+	+	+	-
Bromidico (ácido)			x	x	x	x
Bromuro de plata		20	A	B		
Butano		20	A	A	--	--
Butilo - Acetato de			A	A	A	B
Butírico - Acido	5	20	A	A	A	B
Butírico - Acido	5	65	A	A	A	B
Butírico - Acido	saturado	20	A	A	A	--
Butírico - Acido	saturado	hirviente	A	B	--	--
Cadmio	fundido	320	C	C	--	--
Café		hirviente	A	A	A	B
Calcio - Bisulfito de	sol. acuosa	hirviente	A	A	--	--
Calcio - Bisulfito de Presión 300 Psi	sol. acuosa	200	B	C	--	--
Calcio - Carbonato de		20	A	B	--	--
Calcio - Hipoclorito	saturado	20	A	C	C	C
Calcio - Hipoclorito con pH 10/11 (solución de blanqueo	saturado	20/30	--	C	C	
Calcio - Sulfato	saturado	20	A	A	A	--
Calcio (clorato)	sol diluida	25	*	*	-	-
Calcio (clorato)	sol diluida	Caliente	*	*	-	-
Calcio (cloruro)	sol diluida	25	*!	*!	+!	-
Calcio (cloruro)	Sol. Concentrada	25	*!	*!	+!	-
Calcio (hridróxido)	10%	Ebullición	*	*	-	-
Calcio (hridróxido)	20%	Ebullición	*	*	-	-
Calcio (hidróxido)	50%	Ebullición	*	+	-	-

Sustancia Química	Concentración	Temperatura	AISI 316	AISI 304	AISI 430	AISI 410
Calcio (hipoclorito)	2%	25	*!	*!	+!	-
Calcio (sulfato)	Saturado	25	*	*	*	-
Caldo de Burdeos (viticultura)			A	A	--	--
Carbón o cenizas (mojadas)			A	A	A	B
Carbonatada - Agua			A	A	A	B
Carbonato de sodio	5%	hirviente	A	A	--	--
Carbonato de sodio	50%	hirviente	A	A	--	--
Carbonato de sodio	derretido	900	C	C	--	--
Carbono - Bisulfuro de		20	A	A	A	B
Carbono - Monóxido de (gas)		760	A	A	A	B
Carbono - Monóxido de (gas)		870	A	A	A	--
Carbono - Tetracloruro de	5%	20	B	B	B	C
Carbono - Tetracloruro de	puro	20	A	A	B	C
Carbono - Tetracloruro de	puro	hirviente	A	A	--	--
Carbono - Tetracloruro de	vap. reflujado	hirviente	C	C	--	--
Carbono (bisulfuro)		25	*	*	*	-
Carbono (monóxido)		760	*	*	*	*
Carbono (monóxido)		870	*	*	*	-
Carbono (tetracloruro seco)		25	*	*	*	*
Carbono seco		Ebullición	*	*	*	*
Carnalita	saturada	hirviente	B	B	--	--
Carnes		20	A	A	A	B
Caseína		20	A	A	--	--
Celulosa			A	A	--	--
Cerveza (cebada, malta y lúpulo		20	A	A	--	--
Cebada (malta y lúpulo)		25	*	*	*	*
Cianuro potásico	Solución al 5%	20	A	A		
Cianhídrico - Acido (ácido prúsico)		20	A	A	C	C
Cianógeno - Gas		20	A	A	--	--
Cítrico - Acido	1% - 10%	20º - ebull.	buena	buena		
Acido cítrico concentrado	15	ebull.	A	B		
Cítrico - Acido	10%	25	*	*	*	x
Cítrico - Acido	25%	25	*	*	*	-
Cítrico - Acido	50%	25	*	*	-	-
Cítrico - Acido	10%	Ebullición	*	*	+	+
Cítrico - Acido	25%	Ebullición	*	x	-	-
Cítrico - Acido	50%	Ebullición	*	x	-	-
Cítrico - Acido	más de 50%	20º	buena	buena		
Cítrico - Acido	más de 50%	ebull.	regular	mala		
Cítrico - Acido	5 (destilado)	65	A	A	A	B
Cítrico - Acido	5 (destilado)	hirviente	A	A	A	--
Cítrico - Acido	5 Pres.	140	A	B	--	--
Cítrico - Acido	10	20	A	A	--	--
Cítrico - Acido	10	hirviente	A	A	--	--
Cítrico - Acido	15	20	A	A	A	B
Cítrico - Acido	15	hirviente	A	A	B	B
Cítrico - Acido	25	20	A	A	--	B
Cítrico - Acido	25	hirviente	A	B	--	--
Cítrico - Acido	50	20	A	A	B	B
Cítrico - Acido	50	hirviente	A	B	--	--
Cítrico - Acido	concentrado	20	A	A	--	--
Cítrico - Acido	concentrado	hirviente	A	B	--	--
Cloracético - Acido		20	B	C	C	C
Clorato de Lima - Solución		caliente	A	A	--	--
Clórico - Acido		20	C	C	C	--
Clorinada - Agua	saturada	20	--	B	C	C
Cloro	gas seco	hasta 400º	regular	regular		
Cloro	gas húmedo	20º	mala	mala		
Cloro - Gas de	seco	20	B	B	C	C
Cloro - Gas de	húmedo	20	B	C	C	C
Cloro - Gas de		100	C	C	C	C
Clorobenceno		hirviente	A	A	--	--
Clorobenzol (puro)	concentrado	20	A	A	A	--
Cloroformo	seco	20	A	A	A	B
Clorosulfónico - Acido	10	20	--	B	C	C
Clorosulfónico - Acido	concentrado	20	A	A	C	C
Clorobenzol puro-seco		252	*	*	*	-
Cloroformo		20	A	A		
Cloruro de cal:(mezcla de hipoclorito y cloruros cálcicos)	Cristales secos	20	A	A		
Cloruro de cal:(mezcla de hipoclorito y cloruros cálcicos)	Cristales humedos	20	A	A/B		
Cloruro sódico	sol. Saturada	20º - ebull.	buena	regular		
Cobalto - Acetato de		20	A	A	--	--
Cobre (cloruro)	1% aireado	25	*!	*!	*!	-

Sustancia Química	Concentración	Temperatura	AISI 316	AISI 304	AISI 430	AISI 410
Cobre (cloruro)	5% aireado	25	+!	x	x	-
Cobre (cianuro)	saturado	Ebullición	*	*	*	-
Cobre (nitrato)	5%	25	*	*	*	*
Cobre (nitrato)	50%	Ebullición	*	*	-	-
Cobre (sulfato)	5% aireado	25	*	*	*	-
Cobre (sulfato)	Saturado	Ebullición	*	*	-	-
Cobre - Acetato de	saturado	20	A	A	A	--
Cobre - Carbonato	saturado	20	A	A	A	B
Cobre - Carbonato (+50% NH4OH)	saturado	20	A	A	A	--
Cobre - Cloruro de	1	20	C	C	C	C
Cobre - Cloruro de (agitado)	1	20	A	B	B	B
Cobre - Cloruro de (aireado)	1	20	A	B	B	B
Cobre - Cloruro de (agitado)	5	20	B	B	B	B
Cobre - Cloruro de (aireado)	5	20	C	C	C	C
Cobre - Cloruro de	10	hirviente	C	C	C	C
Cobre - Cloruro de	saturado	20	C	C	C	C
Cobre - Cianuro de	saturado	20	A	A	A	B
Cobre - Cianuro de	saturado	hirviente	A	A	A	B
Cobre - Nitrato de		20	A	A	A	B
Cobre - Nitrato de	50	caliente	A	A	--	--
Cobre - Nitrato de	saturado	20	A	A	A	B
Cobre - Sulfato de	5 (destilado)	20	A	A	A	B
Cobre - Sulfato de	5 (aireado)		A	A	A	B
Cobre - Sulfato de	10	20	A	A	A	B
Cobre - Sulfato de	saturado	hirviente	A	A	A	B
Cobre - Sulfato de (+ 2% H2SO4)	saturado	20	A	A	B	B
Coca-Cola (jarabe puro)		25	*	*	*	-
Colas	-	ebull.	buena	buena		
Cola		caliente	A	A	--	--
Cola (Seca)		20	A	A	A	--
Cola (Solución ácida)		20	A	B	--	--
Cola (solución ácida)		60	A	B	--	--
Colorantes para tintorería		20	A	B	--	--
Copal - Barniz de		20	A	A	A	B
Creosota (alquitrán dehulla)		caliente	A	A	--	--
Creosota (aceite)		caliente	A	A	--	--
Creosota (+ 3% de sal)			C	C	C	C
Cresílico - Acido	hasta hirviente		A	A	A	--
Crómico ácido	10%	25	*	*	*	-
Crómico ácido	10%	Ebullición	*	+	X	-
Crómico ácido	50%	Ebullición	+	+	X	-
Crómico ácido	50% C/SO3	25	*	*	-	-
Crómico ácido	50% C/SO3	Ebullición	X	X	X	-
Crómico - Acido	5	20	A	A	B	C
Crómico - Acido	10	20	A	A	B	C
Crómico - Acido	10	hirviente	B	B	C	C
Crómico - Acido	50 quím. puro	20	B	B	C	C
Crómico - Acido	50	hirviente	B	C	C	C
Crómico - Acido	saturado	20	C	C	C	C
Crómico - Acido (con SO3)	50 (comercio)	20	B	B	C	C
Crómico - Acido (con SO3)	50 (comercio)	hirviente	C	C	C	C
Cromo - Baño galvánico al		20	A	A	--	--
Curtiente - Licor			A	A	--	--
Curtiente - Licor (con sal adicionada)			--	--	C	C
Dicloroetano		25	*	*	-	-
Diclorobenceno		25	*	*	*	-
Eter	-	20º	buena	buena	*	-
Etilenglicol concentrado		25	*	*	*	
Etilia (cloruro seco)		25	*	*	*	
Fénico - Acido quím. Puro		20	A	A	B	B
Fénico - Acido quím. Puro		hirviente	A	A	B	B
Fénico - Acido crudo		hirviente	A	A	B	--
Fénico - Acido	5	hirviente	A	A	--	--
Fenol - Quím. Puro (+10% agua)		hirviente	A	A	A	A
Fenol - Quím. puro		20	--	--	A	A
Fenol - Quím. puro		hirviente	A	A	A	A
Fenol - Crudo		100	A	A	A	A
Fenol - Crudo		hirviente	A	A	A	A
Fenol		25	*	*	*	x
Fenol		Caliente	*	*	*	-
Fenólicas (resinas)		Frio y caliente	*	*		
Férrico (cloruro)	Todas las conc.	25	X	-	X	-
Férrico (hidróxido)		25	*	-	-	-
Férrico (nitrato)	Todas las conc.	25	*	*	*	*
Ferroso (cloruro)	Saturado	25	+	x	-	-

Sustancia Química	Concentración	Temperatura	AISI 316	AISI 304	AISI 430	AISI 410
Ferroso (sulfato)	10%	25	*	*!	+	-
Ferroso (sulfato)	10%	Ebullición	*	*	-	-
Férrico - Cloruro	1	20	B	C	--	--
Férrico - Cloruro	1	hirviente	B	C	C	--
Férrico - Cloruro	5	20	B	C	C	C
Férrico - Cloruro (agitado)	5	20	B	C	C	C
Férrico - Cloruro (aireado)	5	20	B	C	C	C
Férrico - Cloruro	10	20	B	C	C	C
Férrico - Hidróxido (óxido de hierro Hidratado)		20	A	A	A	B
Férrico - Nitrato		20	A	A	A	B
Férrico - Nitrato	saturado	20	A	A	A	B
Férrico - Sulfato		20	A	A	A	B
Férrico - Sulfato	1	hirviente	A	A	A	B
Férrico - Sulfato	saturado	20	A	A	A	--
Férrico - Sulfato	5	hirviente	A	A	--	--
Ferroso - Sulfato	10	20	A	A	A	B
Ferroso - Sulfato	5	20	A	A	A	B
Ferroso - Sulfato	10	hirviente	A	A	--	--
Ferroso - Sulfato	saturado	20	A	A	A	B
Fertilizantes		20	A	B	--	--
Fluor (gas)		25	x	x	x	x
Fluor (gas)		20	C	C	C	C
Acido fluorhídrico	todas	20º - 50º	mala	mala		
Acido fluorhídrico	gaseoso	hasta 200º	buena	buena		
Fluosilícico (Acido)	90	20	B	C	--	--
Formaldeido	40%	25	*	*!	*!	
Formaldehído (formalina metanol)		20	A	A	A	B
Formaldehído (formalina metanol)		hirviente	A	A	A	B
Formalina (formaldehído en solución al 40%)	40	20	A	A	A	B
Fórmico - Acido	1%	20	A	A		
Fórmico - Acido	1%	Ebullición	A	A		
Fórmico - Acido	10%	20	A	A		
Fórmico - Acido	10%	Ebullición	B	B		
Fórmico - Acido	50%	20	A	A		
Fórmico - Acido	50%	Ebullición	B	B		
Fórmico - Acido	90%	20	A	A		
Fórmico - Acido	90%	Ebullición	B	B		
Fórmico - Acido	100%	20	A	A		
Fórmico - Acido	100%	Ebullición	A/B	A/B		
Fórmico - Acido	1	20	A	A	A	--
Fórmico - Acido	1	40	A	A	C	--
Fórmico - Acido	1	hirviente	A	A	C	--
Fórmico - Acido	5	20	A	A	--	--
Fórmico - Acido	5	65	A	B	--	--
Fórmico - Acido	10	20	A	A	--	--
Fórmico - Acido	10	40	A	A	--	--
Fórmico - Acido	10	85	A	C	--	--
Fórmico - Acido	10	hirviente	C	C	--	--
Fórmico - Acido	50	20	A	B	--	--
Fórmico - Acido	50	85	A	C	--	--
Fórmico - Acido	50	hirviente	C	C	--	--
Fórmico - Acido	saturado	20	A	C	--	C
Acido fosfórico	todas	20º	buena	buena		
Acido fosfórico	10% - 50%	ebull.	buena	regular		
Acido fosfórico	concentr.	más de 100º	mala	mala		
Acido fosfórico	10%	20	A	A		
Acido fosfórico	10%	Ebullición	A	A/B		
Acido fosfórico	25%	20	A	A		
Acido fosfórico	25%	Ebullición	A/B	B		
Acido fosfórico	50%	20	A	A		
Acido fosfórico	50%	Ebullición	A/B	B		
Acido fosfórico	85%	20	A	A		
Acido fosfórico	85%	Ebullición	B	B		
Forfórico - Acido	1	20	A	A	--	--
Fosfórico - Acido	1	hirviente	A	A	--	--
Fosfórico - Acido	10	hirviente	A	A	--	--
Fosfórico - Acido	80	60	A	A	--	--
Fosfórico - Acido	80	110	B	C	--	--
Fosfórico - Acido	saturado	20	A	A	C	--
Fosfórico - Acido presión 45 Psi	1	140	A	A	B	B
Fosfórico - Acido	5	20	A	A	B	B
Fosfórico - Acido	10	20	A	A	C	C
Fosfórico - Acido (agitado)	10	20	A	B	C	C
Fosfórico - Acido	10	20	A	B	--	--
Fosfórico - Anhidrido	seco	20	A	A	--	--

Sustancia Química	Concentración	Temperatura	AISI 316	AISI 304	AISI 430	AISI 410
Fosfórico - Anhidrido	húmedo	20	A	A	--	--
Fósforo - Tricloruro	saturado	20	A	A	--	--
Fotografía - Reveladores		20	A	B	--	--
Furfural		25	*	*	*	
Fuel oil (aceite combustible)		20	A	A	A	B
Fuel oil (aceite combustible)		caliente	A	A	--	--
Fuel oil (con ácido sulfúrico)		20	A	B	--	--
Acido gálico	5%	25	*	*	*	-
Acido gálico	5%	65	*	*	*	-
Acido gálico	Saturado (100ºC)	Ebullición	*	*	*	-
Gálico - Acido	500%	20	A	A	A	B
Gálico - Acido	500%	65	A	A	A	B
Gálico - Acido	saturado	20	A	A	A	--
Gálico - Acido	saturado	hirviente	A	A	B	--
Acidos grasos	Todos	175	A	B	--	--
Acidos grasos (Oleína)		175	A	A	--	--
Gases de horno de repostería - panadería			A	A	A	B
Gasolina		20	A	A	A	B
Gasolina	-	20º	buena	buena		
Gasolina (para motores)		Ebullición	A	A		
Gas-oil: Neutro		Caliente	A	A		
Gas-oil: En presencia de ácido sulfúrico Gasolina (para motores)		Caliente	B	C		
Gelatina		25	*	*	*	*
Glicerina	-	20º - 100º	buena	buena		
Gelatina			A	A	A	B
Glicerina		20	A	A	A	B
Hidrobrómico - Acido	saturado	20	C	C	C	C
Hidroclórico - Acido	1 o menos	20	B	C	C	C
Hidroclórico - Acido	1 o menos	60	C	C	C	C
Hidroclórico - Acido	1 o menos	hirviente	C	C	C	C
Hidroclórico - Acido	10	20	C	C	C	C
Hidroclórico - Acido	10	hirviente	C	C	C	C
Hidroclórico - Acido	mas del 10%	todas temp.	C	C	C	C
Hidroclórico - Acido (vapores)		20	B	C	C	C
Hidroclórico - Acido (vapores)		100	C	C	C	C
Hidroclórico - Acido (vapores)		498	C	C	C	C
Hidrofluórico - Acido	todas conc.	20	C	C	C	C
Hidroclórico - Acido (vapores)	100	C	C	C	C	
Hipocloritos de cal, sodio y potasio:	Solución diluida (0,3% de cloro)	20	A	A/B		
Hipocloritos de cal, sodio y potasio:	Solución a 3% de cloro	20	B	B		
Hipocloritos de cal, sodio y potasio:	Soluciones más concentradas	20	B	B		
Jabones	-	20º	buena	buena		
Jabón		20	A	A	A	B
Jarabe		caliente	A	A	--	--
Jugo de remolacha (azucarera)		20	A	A	--	--
Jugos de limón y naranja	-	20º	buena	buena		
Jugo de tomate	-	20º	buena	regular		
Keroseno		20	A	A	A	--
Kepchup		25	*	*!	*!	-H263
Lacas	-	-	buena	buena		
Acido láctico	todas	ebull.	buena	regular		
Acido láctico	10%	20	A	A		
Acido láctico	10%	Ebullición	A	B		
Acido láctico	50%	20	A	A		
Acido láctico	50%	Ebullición	A	B		
Acido láctico	100%	20	A	A		
Acido láctico	100%	Ebullición	A/B	B		
Láctico - Acido	5	20	A	A	B	C
Láctico - Acido	5	65	A	B	B	C
Láctico - Acido	5	85	A	B	C	--
Láctico - Acido	5	hirviente	A	B	C	--
Láctico - Acido	10	65	B	C	--	--
Láctico - Acido	10	hirviente	B	C	--	--
Láctico - Acido	20	20	A	--	--	--
Láctico - Acido	20	hirviente	B	--	--	--
Láctico - Acido	50	20	A	A	B	--
Láctico - Acido	50	40	A	B	C	--
Láctico - Acido	50	60	A	C	--	--
Láctico - Acido	50	hirviente	B	C	--	--

Sustancia Química	Concentración	Temperatura	AISI 316	AISI 304	AISI 430	AISI 410
Láctico - Acido	100	20	A	A	B	B
Láctico - Acido	100	40	A	B	C	--
Láctico - Acido	100	85	B	C	--	--
Láctico - Acido (+ sal)	100	20	A	B	--	--
Leche (fresca o agria)		20	A	A	A	B
Leche (fresca o agria)		caliente	A	A	--	--
Leche	-	20º - ebull.	buena	buena		
Leche fermentada	-	20º	buena	buena		
Leche fermentada	-	ebull.	buena	regular		
Lechada de cal		20	A	A		
Lejía	30	hirviente	A	A	--	--
Lejía de cloro		20	A	B	--	--
Levadura			A	A	--	--
Licor Holandés		20	A	A	--	--
Líquido residual dedestilación			A	A	--	--
Licores	-	-	buena	buena		
Lisol		20	A	B	C	C
Lúpulo		20	A	A	--	--
Linaza (aceite)		25	*	*	*	-
Madera Tintórea -extracto de		20	A	A	--	--
Magnesio (carbonato)	Todas las conc.	25	*	*	*	-
Magnesio (cloruro)	1% y 5%	25	*!	*!	*	-
Magnesio (hidróxido)		25	*	*	*	-
Magnesio (nitrato)	Todas las conc.	25	*	*	*	-
Magnesio - Carbonato de	saturado	20	A	B	A	A
Magnesio - Cloruro de		20	A	A	B	B
Magnesio - Cloruro de		caliente	B	B	--	--
Magnesio - Cloruro de	saturado	20	A	B	B	B
Magnesio - Hidróxido de	espeso	20	A	A	A	B
Magnesio - Nitrato	saturado	20	A	A	A	--
Magnesio - Oxicloruro de		20	B	B	--	--
Magnesio - Sulfato	5	caliente	A	A	A	C
Magnesio - Sulfato	saturado	20	A	A	B	C
Magnesio - Sulfato	saturado	caliente	A	A	A	C
Manganeso - Cloruro de	10	hirviente	B	B	--	--
Manganeso - Cloruro de	50	hirviente	B	B	--	--
Manganeso - Sulfato de		20	A	A	A	--
Málico - Acido	5	20	A	A	A	B
Málico - Acido	saturado	20	A	A	B	C
Acido málico		Frio o caliente	*	*	*	
Manteca		25	*	*	*	*
Manteca de cerdo		20	A	A	A	--
Manteca de cerdo		caliente	A	A	A	--
Mayonesa		25	*	*!	-	-
Mayonesa (salsa)		20	A	A	B	B
Melazas		20	A	A	A	B
Mercurio	-	20º - 50º	buena	buena		
Mercurio (cloruro)		25	x	x	x	x
Mercúrico - Cloruro	0.1	20	A	A	--	--
Mercúrico - Cloruro	0.1	hirviente	A	A	--	--
Mercúrico - Cloruro	0.7	20	B	B	--	--
Mercúrico - Cloruro	0.7	hirviente	C	C	--	--
Mercúrico - Cloruro	2.0	20	B	C	--	--
Mercúrico - Cianuro			A	A	--	B
Mercurio		20	A	A	A	B
Mercurioso - Nitrato	saturado	20	A	A	A	B
Mermelada (confitura, jalea, etc.)		20	A	A	A	--
Metano		20	A	A	--	--
Metanol (alcohol metílico)		20	A	A	A	--
Metilaldehído	40	20	A	A	--	--
Metileno - Cloruro de		hirviente	A	A	--	--
Metilo - Cloruro de		20	A	A	--	--
50% H2SO4conc. + 50% HNO3 conc.		50-60	A	A	--	--
50% H2SO4conc. + 50% HNO3 conc.		90-95	B	B	--	--
50% H2SO4conc. + 50% HNO3 conc.		hirviente -250	B	B	--	--
75% H2SO4conc. + 25% HNO3 conc.		50-60	A	A	--	--
75% H2SO4conc. + 25% HNO3 conc.		90-95	B	B	--	--
75% H2SO4conc. + 25% HNO3 conc.		hirviente -154	C	C	--	--
70% H2SO4conc. + 30% agua		50-60	A	A	--	--
70% H2SO4conc. + 30% agua		90-95	B	B	--	--
70% H2SO4conc. + 30% agua		hirviente-150	C	C	--	--
15% H2SO4conc. + 5% HNO3 conc. + 80% agua		50-60	A	A	--	--
15% H2SO4conc. + 5% HNO3 conc. + 80% agua		90-95	A	A	--	--

Sustancia Química	Concentración	Temperatura	AISI 316	AISI 304	AISI 430	AISI 410
15% H2SO4conc. + 5% HNO3 conc. + 80% agua		hirviente-104	A	A	--	--
30% H2SO4conc. + 5% HNO3 conc. + 75% agua		95	A	A	--	--
30% H2SO4conc. + 5% HNO3 conc. + 75% agua		110	A	A	--	--
58% H2SO4conc. + 40% HNO3 conc. + 2% agua		60	A	A	--	--
58% H2SO4conc. + 40% HNO3 conc. + 2% agua		95	A	A	--	--
58% H2SO4conc. + 40% HNO3 conc. + 2% agua		110	C	C	--	--
70% H2SO4conc. + 10% HNO3 conc. + 20% agua		60	A	A	--	--
70% H2SO4conc. +10% HNO3 conc. + 20% agua		95	A	A	--	--
1% H2SO4conc. + 99% HNO3 conc.		hirviente	A	A	--	--
10% H2SO4conc. + 90% HNO3 conc.		hirviente	A	A	--	--
Mezclas ácidas: 50% H2SO4 + 50%HNO3		Fría	*	*	-	-
Mezclas ácidas: 50% H2SO4 + 50%HNO4		100	*	*	-	-
Mezclas ácidas: 50% H2SO4 + 50%HNO5		Ebullición	+	+	-	-
Mezclas ácidas: 70% H2SO4 + 10%HNO3+ 10%H2O		Fría	*	*	-	-
Mezclas ácidas: 70% H2SO4 + 10%HNO3+ 10%H2O		100	*	*	-	-
Mezclas ácidas: 70% H2SO4 + 10%HNO3+ 10%H2O		Ebullición	X	X	-	-
Mezclas ácidas: 15% H2SO4 + 5%HNO3+ 80%H2O		100	*	*	-	-
Mezclas ácidas: 15% H2SO4 + 5%HNO3+ 80%H2O		Ebullición	*	*	-	-
Melaza			*	*	*	-
Molibdico (ácido)	5%	25	*!	*!	+!	-
Molíbdico - Acido		20	A	A	--	--
Monoetanolamina		hasta 100	A	A	--	--
Mostaza		20	A	B	B	C
Mostaza	-	20º	buena	buena		
Mosto de cerveza			A	A	--	--
Mosto de destilería		20	A	A	--	--
Muriático - Acido		20	C	C	C	C
Muriático (ácido)		25	x	x	x	x
Nafta		20	A	A	A	B
Nafta Cruda		20	A	A	--	--
Nafta pura		25	*	*	*	-
Nafta cruda		25	*	*	-	-
Naftalensulfónico - Acido		20	A	A	--	--
Negro de Humo		20	A	A	--	--
Niquel (cloruro)	Solución	25	*!	*!	-	-
Níquel - Cloruro de	saturado	20	A	B	--	--
Níquel - Nitrato de	saturado	20	A	A	A	B
Níquel - Nitrato de	todas conc.	hirviente	A	A	--	--
Níquel - Sulfato de	saturado	20	A	A	--	--
Níquel - Sulfato de	saturado	caliente	A	A	--	--
Níquel - Sulfato de solución galvanoplástica)		20	A	A	--	--
Nítrico - Acido	10%	Ebullición	A	A		
Nítrico - Acido	20%	Ebullición	A	A		
Acido nítrico	hasta 50%	20º - ebull.	buena	buena		
Acido nítrico	65% - 40º Bé	20º - 50º	buena	buena		
Acido nítrico	65% - 40º Bé	ebull.	regular	regular		
Acido nítrico	80% - 95%	20º - 50º	buena	buena		
Acido nítrico	más de 80%	ebull.	mala	mala		
Acido nítrico	más de 95%	20º - 50º	regular	regular		
Acido nítrico	95%	Ebullición	C	C		
Nítrico - Acido	5	20	A	A	A	A
Nítrico - Acido	5	hirviente	A	A	A	--
Nítrico - Acido	20	20	A	A	A	A
Nítrico - Acido	20	hirviente	A	A	A	--
Nítrico - Acido	50	20	A	A	A	A
Nítrico - Acido	50	hirviente	A	A	B	--
Nítrico - Acido	65	hirviente	B	B	B	C
Nítrico - Acido	concentrado	20	A	A	A	A
Nítrico - Acido	concentrado	hirviente	B	B	C	C
Nítrico - Acido (10% + 17% de nitrato de bario)		hirviente	A	A	--	--
Nítrico - Acido (+10% de nitrato de potasio)	fumante	hirviente	B	B	--	--
Nítrico - Acido (+10% de nitrato de aluminio)	fumante	hirviente	B	B	--	--

Sustancia Química	Concentración	Temperatura	AISI 316	AISI 304	AISI 430	AISI 410
Nítrico - Acido (+2% de ácido clorhídrico)	concentrado	20	--	A	C	C
Nítrico - Acido	conc. fumante	20	C	C	--	--
Nítrico - Acido	conc. fumante	hirviente	C	C	--	--
Nitrificadores - Acidos		20	A	A	A	--
Nitroso - Acido	5	20	A	A	A	--
Nitroso - Acido	concentrado	20	A	A	A	A
Nítrico (sulfato)	Solución	25	*!	*!	-	-
Nitrato de plata	10%	20º - ebull.	buena	buena		
Acido oleico		20	A	A		
Acido oleico		100	A	A		
Acido oleico		200	A	A/B		
Acido oleico		300	A/B	B		
Oleico - Acido	concentrado	20	A	A	A	B
Oleico - Acido	concentrado	95	A	A	A	B
Oro - Cianuro de (solución para Galvanoplastia)						
Acido oxálico	10%	20º	buena	buena		
Acido oxálico	10%	ebull.	regular	mala		
Acido oxálico	50%	20	A	A		
Acido oxálico	50%	Ebullición	B	C		
Oxálico - Acido	2.5	20	A	A	B	--
Oxálico - Acido	2.5	85	A	C	C	--
Oxálico - Acido	2.5	hirviente	C	C	C	--
Oxálico - Acido	5	20	A	A	B	B
Oxálico - Acido	5	caliente	A	A	B	B
Oxálico - Acido	10	20	A	A	--	--
Oxálico - Acido	10	hirviente	B	C	--	--
Oxálico - Acido	25	hirviente	B	C	--	--
Oxálico - Acido	50	hirviente	B	B	--	--
Oxálico - Acido	saturado	20	A	B	C	C
Oxálico - Acido	saturado	60	B	C	C	--
Oxálico - Acido	saturado	hirviente	C	--	--	--
Orina	-	20º	buena	buena		
Palmítico - Acido		100	A	A	A	--
Palmítico - Acido		150	A	A	B	--
Parafina	-	100º	buena	buena		
Parafina		20	A	A	A	A
Parafina		caliente	A	A	A	A
Paregórica - tintura			A	A	--	B
Pastas alimenticias		20	A	A	A	B
Perclórico - Acido		20	C	C	C	C
Peróxido de Hidrógeno		20	A	A	--	--
Permanganato potásico	todas	20º - ebull.	buena	buena		
Petróleo	-	20º	buena	buena		
Petróleo			A	A	--	--
Petróleo - Eter de			A	A	A	A
Plata - Cloruro de	2000%	C	C	C	C	
Plata - Bromuro de		20	A	B	B	C
Plata - Cianuro (solución para galvanoplastia)		20	A	A	A	C
Plata - Nitrato de	1000%	20	A	A	A	B
Plata - Nitrato de	1000%	20	A	B	--	--
Plomo	fundido	600	B	B	B	C
Plomo - Acetato de	saturado	20	A	A	A	--
Plomo - Acetato de	saturado	caliente	A	A	A	B
Plomo (fundido)		540	+	+	+	-
Plomo acetato	5%	Ebullición	*	*	-	-
Pícrico - Acido	concentrado	20	A	A	A	A
Acido pícrico	10%	Ebullición	A	A		
Pirogálico - Acido	concentrado	20	A	A	A	B
Piroleñoso - Acido	concentrado	20	A	A	--	--
Potasa cáustica	10%	20º - ebull.	buena	buena		
Potasa cáustica	50%	20º	buena	buena		
Potasa cáustica	50%	ebull.	regular	regular		
Potasa	solución	caliente	A	A	--	--
Potasa Cáustica	30	hirviente	A	A	--	--
Potasio - Bicromato de	5	hirviente	A	A	A	B
Potasio - Bicromato de	25	hirviente	A	A	--	--
Potasio - Bicromato de	saturado	20	A	A	A	A
Potasio - Bitartrato	saturado	hirviente	B	B	--	--
Potasio - Bromuro de	5	hirviente	A	B	B	--
Potasio - Bromuro de	saturado	20	A	B	--	--
Potasio - Carbonato	todas conc.	20	A	A	A	B
Potasio - Carbonato	todas conc.	caliente	A	A	--	--
Potasio - Cianuro de	saturado	20	A	A	A	B

Sustancia Química	Concentración	Temperatura	AISI 316	AISI 304	AISI 430	AISI 410
Potasio - Clorato de	saturado	20	A	A	A	B
Potasio - Clorato de	saturado	caliente	A	A	--	--
Potasio - Cloruro de		20	A	A	A	B
Potasio - Cloruro de		hirviente	A	A	--	--
Potasio - Cloruro de	saturado	20	A	A	B	B
Potasio - Bicromato de	25	hirviente	A	A	A	A
Potasio - Bicromato de	5	hirviente	A	A	A	A
Potasio - Ferrocianuro de	5	20	A	A	A	--
Potasio - Ferrocianuro de	25	20	A	A	--	--
Potasio - Ferrocianuro de	25	hirviente	A	A	--	B
Potasio - Ferrocianuro de	saturado	20	A	A	A	A
Potasio - Ferrocianuro de	saturado	hirviente	A	A	A	A
Potasio - Hidrato de	saturado	20	A	A	A	A
Potasio - Hidróxido de	todas conc. Hasta 25%	20	A	A	A	A
Potasio - Hidróxido de	todas conc. Hasta 25%	hirviente	A	A	A	--
Potasio - Hidróxido de	27	hirviente	A	A	--	--
Potasio - Hidróxido de	50	hirviente	A	B	--	--
Potasio - Hipoclorito de	saturado	20	A	B	--	--
Potasio - Hipoclorito de	saturado pH 10-11	20-30	--	C	--	--
Potasio - Nitrato de		20	A	A	A	B
Potasio - Nitrato de		caliente	A	A	--	--
Potasio - Nitrato de	saturado	20	A	A	A	B
Potasio - Nitrato de	en fusión	550	A	A	--	--
Potasio - Permanganato de	5	20	A	A	A	--
Potasio - Permanganato de	5	hirviente	A	A	--	--
Potasio - Permanganato de	saturado	20	A	A	A	B
Potasio - Permanganato de	saturado	hirviente	A	A	--	--
Potasio - Sulfato de		20	A	A	A	B
Potasio - Sulfato de		caliente	A	A	--	--
Potasio - Sulfuro de	sales	20	A	A	--	--
Potasio - Sulfuro de	solución	caliente	A	A	--	--
Potasio - Yoduro de	saturado	20	A	A	--	B
Prúsico - Acido			A	A	C	C
Pulpa de Madera			A	B	--	--
Quesos	-	20º	buena	buena		
Quinina - Bisulfato de	seco	20	A	B	B	C
Quinina - Sulfato de	seco	20	A	A	B	B
Quinosol - Antiséptico	0.388888888889	20	A	A	--	--
Resina	derretida		A	A	A	B
Residuos Cloacales			*!!	*!!	-	-
Revelador (en solución)para radiografías		20	A	B	--	--
Revelador fotogr. (solución)		20	A	B	--	--
Sal Amoníaco	10%	hirviente	A	A	A	--
Sal Amoníaco	50%	hirviente	A	B	--	--
Sales de Epsom ensolución (sulfato de Magnesio)			A	A	A	--
Sales de Glauber (sulfato de sodio)		20	A	A	--	--
Salicílico - Acido	9000%	hasta 100	A	A	A	B
Acido salicílico	10%	20º - ebull.	buena	buena		
Salitre	solución	cal	A	A	--	--
Salmuera		20	A	C	--	--
Salsa de tomate (Kepchup)		20	A	A	A	B
Sangre - Jugos de carne		20	A	A	--	--
Sangre	-	20º	buena	buena		
Sauerkraut - adobo de		20	A	C	--	--
Sidra		20	A	A	A	B
Sodio calcinado -carbonato de	10	95	A	A	A	A
Sodio calcinado -carbonato de	50	95	A	A	A	A
Sodio - Acetato	húmedo	20	A	A	A	--
Sodio - Acetato	5	20	A	A	A	B
Sodio - Acetato	saturado	20	A	A	--	B
Sodio - Bicarbonato de	todas conc.	20	A	A	A	B
Sodio - Bicarbonato de	5	65	A	A	A	B
Sodio - Bicromato de	saturado	20	A	A	A	B
Sodio - Bisulfato	10	20	A	A	--	--
Sodio - Bisulfato	10	hirviente	A	A	--	--
Sodio - Bisulfato	saturado	20	A	A	--	--
Sodio - Bisulfito	Gr. esp. 1.38	20	A	A	--	--
Sodio - Borato de	saturado	20	A	A	A	B
Sodio - Bromuro de	saturado	20	A	A	--	B
Sodio - Bromuro de	5	20	B	B	B	B

Sustancia Química	Concentración	Temperatura	AISI 316	AISI 304	AISI 430	AISI 410
Sodio - Carbonato de	todas conc.	20	A	A	A	B
Sodio - Carbonato de	todas conc.	65	A	A	A	B
Sodio - Carbonato de	derretido	840	C	C	C	C
Sodio - Clorato de	10	20	A	A	A	B
Sodio - Clorato de	25	20	A	A	A	B
Sodio - Cloruro de (aireado)	2	20	A	A	B	C
Sodio - Cloruro de	5	20	A	A	B	B
Sodio - Cloruro de	5	65	A	B	C	C
Sodio - Cloruro de (aireado)	20	20	A	B	C	C
Sodio - Cloruro de	saturado	20	A	B	C	C
Sodio - Cloruro de	saturado	hirviente	A	B	C	C
Sodio - Citrato de	saturado	20	A	A	A	B
Sodio - Fluoruro de	5	20	A	B	--	--
Sodio - Fluoruro de	saturado	20	B	B	--	--
Sodio - Hidróxido de	todas conc.	20	A	A	A	A
Sodio - Hidróxido de	20	110	A	A	--	--
Sodio - Hidróxido de	30	hirviente	A	A	--	--
Sodio - Hidróxido de	50	hirviente	A	B	--	--
Sodio - Hidróxido de	en fusión	315	B	C	--	--
Sosa cáustica	10%	20º - ebull.	buena	buena		
Sosa cáustica	50%	20º	buena	buena		
Sosa cáustica	50%	ebull.	regular	regular		
Sodio - Hipoclorito de	5	20	A	B	C	C
Sodio - Hipoclorito de (solución de Dakin, antisept.)						
Sodio - Hipoclorito de (pH 10/11)	saturado	95	--	C	C	C
Sodio - Lactato de	saturado	20	A	A	--	--
Sodio - Nitrato de	todas conc.	20	A	A	A	A
Sodio - Nitrato de	todas conc.	caliente	A	A	B	C
Sodio - Nitrato de	derretido		B	B	B	--
Sodio - Nitrito de	solución	caliente	A	A	--	--
Sodio - Nitrito de	saturado	20	A	A	--	--
Sodio - Perclorato de	10	20	A	A	--	--
Sodio - Perclorato de	10	hirviente	A	A	--	--
Sodio - Peróxido de	10	20	A	A	--	--
Sodio - Peróxido de	10	95	A	A	--	--
Sodio - Peróxido de	saturado	100	A	A	A	--
Sodio - Fosfato de	5	20	A	A	A	A
Sodio - Fosfato de	saturado	20	A	A	A	--
Sodio - Salicilato de	saturado	20	A	A	A	A
Sodio - Sulfato de	todas conc.	20	A	A	C	C
Sodio - Sulfato de	5	caliente	A	B	C	C
Sodio - Sulfuro de	50	hirviente	A	A	C	C
Sodio - Sulfuro de	5	20	A	A	C	C
Sodio - Sulfuro de	saturado	20	A	B	B	B
Sodio - Sulfito de	5	20	A	A	C	C
Sodio - Sulfito de	10	65	A	B	C	C
Sodio - Sulfito de	50	hirviente	A	B	C	C
Sodio - Sulfito de	saturado	20	A	A	A	B
Sodio - Tiosulfato de	25	20	A	A	A	--
Sodio - Tiosulfato de	25	hirviente	A	A	A	--
Sodio - Tiosulfato de (+4% Pot. metabisulfato)	saturado	20	A	A	A	B
Soja - Aceite de	5		A	A	--	--
Sulfato de cobre	50%	ebull.	buena	buena		
Sulfato ferroso	10%	20º - ebull.	buena	buena		
Sulfuro de carbono	-	20º - ebull.	buena	buena		
Hidrógeno - Sulfuro de	seco	20	A	A	A	--
Hidrógeno - Sulfuro de	húmedo	20	A	B	B	--
Hidrógeno - Sulfuro de		a 205	A	B	--	--
Hiposulfato de sodio	diluído	caliente	A	A	--	--
Hiposulfato de sodio(hipo)		20	A	A	B	--
Acido sulfhídrico solución saturada en frío			A	A		
Acido sulfúrico	1%	20	A	B		
Acido sulfúrico	1%	50	A	B		
Acido sulfúrico	1%	75	A	B		
Acido sulfúrico	1%	Ebullición	B	C		
Acido sulfúrico	5%	20	A	B		
Acido sulfúrico	5%	50	A	B		
Acido sulfúrico	5%	75	B	C		
Acido sulfúrico	5%	Ebullición	C	C		
Acido sulfúrico	10%	20	A	C		
Acido sulfúrico	10%	50	A	C		
Acido sulfúrico	10%	75	C	C		
Acido sulfúrico	10%	75º - ebull.	mala	mala		
Acido sulfúrico	20%	20	A	C		

Sustancia Química	Concentración	Temperatura	AISI 316	AISI 304	AISI 430	AISI 410
Acido sulfúrico	20%	50	C	C		
Acido sulfúrico	más de 20%	50º - ebull.	mala	mala		
Acido sulfúrico	40%	20	C	C		
Sulfúrico - Acido	5	20	A	B	C	C
Sulfúrico - Acido	5	40	A	C	C	C
Sulfúrico - Acido	5	60	A	C	C	C
Sulfúrico - Acido	5	hirviente	--	C	C	C
Sulfúrico - Acido	10	20	A	B	C	C
Sulfúrico - Acido	10	40	A	C	C	C
Sulfúrico - Acido	10	hirviente	--	C	C	C
Sulfúrico - Acido (+10% de sulfato de cobre)	10	hirviente	A	A	--	--
Sulfúrico - Acido (+2% de sulfato de hierro)	10	hirviente	A	A	--	--
Sulfúrico - Acido	15	20	A	C	C	C
Sulfúrico - Acido	15	40	--	C	C	C
Sulfúrico - Acido	15	60	--	C	C	C
Sulfúrico - Acido (+2% de bicromato de potasio)	15	20	A	A	--	--
Sulfúrico - Acido (+6% de sulfato de cobre)	40	60	A	A	A	A
Sulfúrico - Acido	40	hirviente	--	C	--	--
Sulfúrico - Acido	50	20	B	C	C	C
Sulfúrico - Acido	50	hirviente	C	C	C	C
Sulfúrico - Acido	85	20	A	B	C	C
Sulfúrico - Acido	85	40	B	B	C	C
Sulfúrico - Acido	concentrado	20	A	A	A	A
Sulfúrico - Acido	concentrado	40	A	B	C	C
Sulfúrico - Acido	concentrado	60	B	B	C	C
Sulfúrico - Acido	concentrado	100	C	C	--	--
Sulfúrico - Acido	concentrado	150	C	C	C	C
Sulfúrico - Acido	concentrado	hirviente	C	C	C	C
Sulfúrico - Acido	fumante	20	B	B	--	--
Sulfúrico - Acido (11% SO3 libre)	fumante	100	B	B	--	--
Sulfúrico - Acido (60% SO3 libre)	fumante	20	A	A	--	--
Sulfúrico - Acido (60% SO3 libre)	fumante	70	A	A	--	--
Sulfúrico - Acido con nitratos	propor. varias		A	A	A	A
Sulfúrico - Acido con cloruros		20	B	--	--	--
Sulfuroso - Acido	saturado	20	A	A	B	B
Sulfuroso - Acido (presión 60 Psi)	saturado	120	A	B	C	--
Sulfuroso - Acido (presión 70 a 125 Psi)	saturado	160	A	B	C	--
Sulfuroso - Acido (presión 150 Psi)	saturado	190	A	B	C	--
Sulfuroso - Acido (presión 200 psi)	saturado	200	B	B	--	--
Sulfuroso - Acido (presión 300 psi)	saturado	200	B	B	--	--
Sulfuroso - Acido (pulverizado)		20	C	C	--	--
Sulfuroso - Dióxido (gas)	húmedo	20	B	B	B	B
Sulfuroso - Dióxido (gas)		300	A	A	A	--
Tannico - Acido	todas conc.	20	A	A	A	B
Tannico - Acido	todas conc.	hirviente	A	A	A	B
Tartárico - Acido	1	20	A	A	A	--
Tartárico - Acido	1	40	A	A	A	--
Tartárico - Acido	10	20	A	A	C	C
Tartárico - Acido	10	hirviente	A	A	C	C
Tartárico - Acido	concentrado	20	A	A	A	B
Tartárico - Acido	concentrado	65	A	B	C	C
Acido tartárico	10%	20	A	A		
Acido tartárico	10%	Ebullición	A	A		
Acido tartárico	50%	20	A	A		
Acido tartárico	50%	Ebullición	A	A		
Acido tartárico	Saturado a ebullición	Ebullición	A	B		
Taninos	todas	20º - ebull.	buena	buena		
Tinta		20	A	A	B	B
Tintas	-	20º - ebull.	buena	buena		
Tinta de agallas		20	A	A	--	--
Titanio - Tetracloruro de	saturado	20	A	A	A	A
Trementina - Esencia de		35	A	A	--	--
Trementina		20	A	A		
Tricloroacético - Acido		20	C	C	C	--
Tricloroetileno		20	A	A	--	C
Tricloroetileno		hirviente	A	A	--	--
Tricloroetileno	-	ebull.	buena	buena		
Tung - Aceite secante de		20	A	A	--	--
Acido úrico concentrado		cualquier temp.	A	A		
Urea		20	A	A		
Urico - Acido	concentrado	20	A	A	A	A
Vapor de agua	-	300º	buena	buena		

Sustancia Química	Concentración	Temperatura	AISI 316	AISI 304	AISI 430	AISI 410
Vapor			A	A	A	A
Vapor y aire de reflujo			A	A	--	B
Vapor - CO2 y aire			A	A	B	B
Vapor - SO2, CO2 y aire			A	A	B	B
Vinagre	-	20º - ebull.	buena	buena		
Vinagre		20	A	A	B	B
Vinagre		caliente	A	A	--	--
Vinagre (agitado)		20	A	A	A	B
Vinagre (aireado)		20	A	A	A	A
Vinagre vapores de			A	B	B	--
Vinagre (en salsas y encurtidos)			A	A	A	--
Vinagre (+0.5% de sal)		hasta 95	A	A	B	B
Vino	-	20º	buena	regular		
Vino Blanco			A	A	--	--
Vine Tinto						
Vitriolo	diluído	caliente	A	A	--	--
Vitriolo azul (sulfato de cobre)	saturado	hirviente	A	A	A	A
Vitriolo Blanco (sulfato de zinc)	saturado	hirviente	A	A	A	A
Vitriolo Verde (sulfato de hierro)	saturado	20	A	A	A	A
Whisky			A	A	--	--
Yeso Mate			A	A	--	--
Yodo	seco	20	A	C	C	C
Yodo	húmedo	20	B	C	C	C
Yodoformo		20	A	B	--	--
Yodo		25	*	*	-	-
Yodoformo		25	*	*!	*!	-
Zinc	fundido	600	C	C	C	C
Zinc - Cloruro de	5	20	A	A	B	A
Zinc - Cloruro de	5	hirviente	B	B	B	C
Zinc - Cloruro de	10	hirviente	A	C	C	C
Zinc - Cloruro de	50	40	B	B	C	C
Zinc - Cloruro de	saturado	20	B	C	C	C
Zinc - Cianuro de	húmedo	20	A	A	--	--
Zinc - Nitrato de		caliente	A	A	--	--
Zinc - Sulfato de	5	20	A	A	B	C
Zinc - Sulfato de	25	20	A	A	B	C
Zinc - Sulfato de	25	hirviente	A	B	C	C
Zinc - Sulfato de	saturado	20	A	B	B	--
Zumo de ananas (piña de América)		20	A	A	--	--
Zumo de azúcar		20	A	A	A	--
Zumo de azúcar		caliente	A	A	A	--
Zumo de frutas		20	A	A	A	B
Zumo de frutas		caliente	A	A	A	B
Zumo de limón		20	A	A	A	--
Zumo de limón	todas conc.	caliente	A	A	--	--
Zumo de tomate		20	A	A	A	B
Zumos vegetales		20	A	A	B	B
Zumos vegetales		caliente	A	A	B	B

ANEXO 2: Tabla de compatibilidad química para el Aluminio

Valoración Empresa ALU-STOCK
http://www.alu-stock.es/es/descargas/
Muy bueno
Bueno
Regular
Malo/Evitar

Sustancia Química	Aluminio
Sustancia Química: Inorgánica	
Acetatos alcalinos	
Acido arsénico	
Acido bórico	
Acido carbónico	
Acido crómico	
Acido hidrobromídrico	
Acido hidroclorhídrico	
Acido hidroflourhídrico	
Acido nítrico (C>80% a 20ºC)	
Acido nítrico (diluido)	
Acido nitroso	
Acido ortofosfórico	
Acido perclorhídrico	
Acido sulfúrico	
Acido sulfúrico (en solución diluida)	
Acido sulfuroso (en solución diluida)	
Agua clorada	
Agua de lluvia	
Agua de mar	
Agua destilada	
Amonio (gas)	
Azufre	
Bicarbonato sódico	
Bisulfito sódico	
Borato sódico (solución fría)	
Bromuro de amonio	
Bromuro de potasio	
Bromuro sódico	
Carbonato cálcico	
Carbonato cálcico (cal)	
Carbonato de amonio	
Carbonato de potasio	
Carbonato sódico	
Carburo de calcio (Anhídrido)	
Cemento	
Cemento (humedo)	
Cemento aluminoso	
Clorato potásico	
Clorato sódico	
Cloruro (Anhídrido)	
Cloruro de aluminio	
Cloruro de amonio	
Cloruro de bario	
Cloruro de calcio	
Cloruro de estaño	

Sustancia Química	Aluminio
Cloruro de magnesio	
Cloruro de mercurio	
Cloruro de Zinc	
Cloruro férrico	
Cloruro potásico	
Cloruro sódico	
Cromato potásico	
Dicromato potásico	
Dióxido de azufre	
Disulfuro de carbono	
Ferrocianuro potásico	
Fluorsilicato sódico (<1%)	
Formato de amonio	
Fosfato de amonio (dibásico)	
Fosfato sódico tribásico	
Fosfuros (anhídridos)	
Herbicidas inorgánicos	
Herrumbre	
Hexasulfuro de fósforo	
Hidrogeno sulfídrico (anhídrido)	
Hidrogeno sulfuroso	
Hidrosulfuro cálcico	
Hidróxido de bario (En solución)	
Hidróxido potásico	
Hidróxido sódico	
Hipoclorito cálcico	
Hipoclorito potásico	
Hipoclorito sódico	
Hiposulfito sódico	
Ioduro (cristales de anhídrido)	
Ioduro (en tintura alcohólica)	
Ioduro de arsenio	
Lejía	
Mercurio	
Monóxido de carbono	
Nitratato de aluminio	
Nitrato de amonio	
Nitrato de potasio	
Nitrato sódico	
Nitrito de potasio	
Nitrito sódico	
Oxalato cálcico	
Oxalatos alcalinos	
Oxido crómico	
Oxido de lítio	
Oxido de Zinc (<10 %)	
Pentóxido de fósforo	
Perclorato de amonio	
Permanganato potásico	
Peróxido de hidrógeno (concentrado)	
Peróxido de hidrogeno (diluido)	
Peróxido de nitrogeno (humedo)	
Peróxido de nitrogeno (seco)	
Peróxido de sodio	
Persulfato de amonio	
Sales de mercurio	
Silicato de magnesio	
Silicato de potasio	
Silicato de sodio	

Sustancia Química	Aluminio
Solución amoniacal	
Solución de amoniaco	
Sulfato cálcico	
Sulfato de aluminio	
Sulfato de amonio	
Sulfato de cobre	
Sulfato de magnesio	
Sulfato de potasio	
Sulfato de sodio	
Sulfato de Zinc (<10 %)	
Sulfato férrico	
Sulfato ferroso	
Sulfato potásico de aluminio	
Sulfito de sodio	
Sulfuro cálcico (Puro)	
Sulfuro de amonio	
Sulfuro de cal	
Sulfuro de sodio	
Tinta china	
Tiocianato potásico	
Vapores de nitrógeno (seco)	
Yeso	

Sustancia Química: Orgánica	
Aceites esenciales	
Aceites de girasol	
Aceites de oliva	
Aceites vegetales	
Acetaldehido (mojado)	
Acetanilina	
Acetato de butilo	
Acetato de celulosa	
Acetileno	
Acetona	
Acido acético (diluido)	
Acido antranílico	
Acido benzoico	
Acido butírico	
Acido esteárico	
Acido fórmico	
Acido ftalíco (puro)	
Acido gálico	
Acido glicólico	
Acido hidrocianídrico	
Acido láctico (caliente)	
Acido málico (<10 %, frío)	
Acido margárico	
Acido oleico	
Acido oxálico	
Acido palmítico	
Acido salicílico	
Acido succinico	
Acido tánico	
Acido tartárico (10%, frío)	
Acido valérico	
Acidos grasos	
Agua de colonia	
Alcanfor	
Alcohol etílico, al 98% (frío)	

Sustancia Química	Aluminio
Alcohol metílico (98%, frío)	
Aldehido benzoico	
Aminas aromáticas	
Anhídrido acético	
Anilina (líquida), fría	
Antraceno	
Antraquinona	
Arcilla	
Asfalto	
Benceno	
Benzaldehido	
Betún	
Bromoformo	
Bromuro de metilo	
Carbón (mojado)	
Carbón (seco)	
Celulosa (seca)	
Ceras	
Cetonas aromáticas	
Cianuro de potasio	
Cloroformo (hirviendo), puro	
Cloroformo (mojado), a 20ºC	
Cloruro de benceno (seco)	
Cloruro de etanol (Anhídrido), frío	
Cloruro de metilo	
Colas (neutras)	
Corcho (humedo)	
Corcho (seco)	
Cresol (a menos de 80ºC)	
Crotonaldehido	
Dibromuro de etileno	
Dicloetano (Anhídrido)	
Dicloetileno (Anhídrido)	
Dicloruro de etileno (Anhídrido)	
Disulfuro de carbón	
Esmaltes	
Estracto de nuez	
Eter etílico (no medicinal)	
Eteres	
Etilen glicol	
Extracto de madera de Panamá	
Fenilamina (frío)	
Fenol (concentrado)	
Fenoles (<100ºC)	
Formaldehido	
Formato de aluminio	
Fuel oil	
Fulminato de mercurio	
Furfural	
Gas ciudad	
Gelatina (seca)	
Glicerina (pura)	
Goma	
Grasa animal	
Herbicidas	
Hexametilen tetramina	
Hidrocloruro de anilina	
Hidroquinona	
Indol	

Sustancia Química	Aluminio
Iodoformo	
Jabón suave	
Latex	
Manitol	
Metaldehido	
Metanol (<75%)	
Metilamina	
n-butanol	
n-e-isopropanol	
Naftaleno	
Naftilamina	
Nicotina	
Nitroglicerina	
Nitrocelulosa	
Orina	
Oxalato etílico	
Parafina	
Paraldehido	
Percloretileno (anhídrido)	
Pirrol	
Queroseno	
Reactivos fotográficos	
Resinas	
Salizaldeido	
Sulfato de anilina	
Sulfato de nicotina	
Sulfonal	
Tabaco	
Tanina	
Tanina sintética	
Tetracloruro de carbono	
Tetramina	
Tintes	
Tiourea	
Tolueno	
Tricresilfosfato	
Trietanolamina	
Urea	

ANEXO 3: Tabla de compatibilidad química para EPDM y otros polímeros

Valoración EmpresaTRELLEBORG
Trelleborg Sealing Solutions: "Materials Chemical Compatibility Guide", tss-static.com/remotemedia/media/globalformastercontent/downloadsautomaticalycreatedbyscript/catalogsbrochures/mat_chem_comp_gb_en

1 No significant effect
2 Minor effect
3 Moderate effect
4 Severe effect

Valoración Empresa IPEX — http://www.ipexna.com/media/1231/epdm-fkm-chemical-resistance-guide.pdf

1 Satisfactory
2 Fair
3 Doubtful
4 Unsatisfactory

Valoración Empresa CUSTOM ADVANCED — Custom Advanced Connections: "Chemical Resistance Chart", www.customadvanced.com/chemical-resistance-chart.html.

A Recommended
B Minor to Moderate Effect
C Moderate to Severe Effect
D Not Recommended
* Insuffient Data

Valoración Empresa MYKIN INC. — http://mykin.com/rubber-chemical-resistance-chart

1 Satisfactory
2 Fair
3 Doubtful
4 Unsatisfactory

Valoración Empresa FBS — www.fbs-online.com-EPDM Chemical Compatibility Results

A Excellent
B Good -- Minor Effect, slight corrosion or discoloration
C Fair -- Moderate Effect, not recommended for continuous use. Softening, loss of strength, swelling may occur.
D Severe Effect, not recommended for ANY use
N/A Information Not Available

Chemical Substance	EPDM	SBR	NBR	FKM
Alcohols:Amyl	A-Excellent			
1-Chloro-1-Nitro Ethane	D	D	D	D
1-Hexene	4	4	2	
1-Nitropropane	1	3	4	
Abietic Acid	X			X
Abietic Acid	X	X	X	X
Acetaldehyde	2			4
Acetaldehyde	A	C	D	D
Acetaldehyde	2	3	3	4
Acetaldehyde	A-Excellent			
Acetamide	1			3
Acetamide	A	D	A	B
Acetamide	1	4	1	3
Acetamide	A-Excellent			
Acetanilide	1			3
Acetanilide	1	1	3	3

Chemical Substance	EPDM	SBR	NBR	FKM
Acetate Solvent	A-Excellent			
Acetic Acid	A-Excellent			
Acetic Acid 20%	A-Excellent			
Acetic Acid 80%	A-Excellent			
Acetic Acid, 30%	1			X
Acetic Acid, 30%	A	B	B	B
Acetic Acid, 30%	1	X	X	X
Acetic Acid, 5%	1			1
Acetic Acid, 5%	1	2	2	1
Acetic Acid, Glacial	1			2
Acetic Acid, Glacial	A	B	C	C
Acetic Acid, Glacial	1	2	2	2
Acetic Acid, Glacial	B-Good			
Acetic Acid, Hot, High Pressure	3			4
Acetic Acid, Hot, High Pressure	3	4	4	4
Acetic Anhydride	2			4
Acetic Anhydride	B	B	C	D
Acetic Anhydride	2	2	3	4
Acetic anhydride	2	2	4	
Acetic Anhydride	B-Good			
Acetoacetic Acid	1			3
Acetoacetic Acid	1	1	3	3
Acetone	1			4
Acetone	A	C	D	D
Acetone	1	4	4	4
Acetone	1	1	4	
Acetone	A-Excellent			
Acetone Cyanohydrin	1			3
Acetone Cyanohydrin	1	1	3	3
Acetonitrile	1			1
Acetonitrile	1	X	3	1
Acetophenetidine	4			1
Acetophenetidine	4	4	2	1
Acetophenone	1			4
Acetophenone	A	D	D	D
Acetophenone	1	4	4	4
Acetophenone	1	1	4	
Acetotoluidide	4			1
Acetotoluidide	4	4	2	1
Acetyl Acetone	1			4
Acetyl Acetone	1	4	4	4
Acetyl Bromide	1			1
Acetyl Bromide	1	4	4	1
Acetyl Chloride	4			1
Acetyl Chloride	D	D	D	A
Acetyl Chloride	4	4	4	1
Acetyl Chloride (dry)	D-Severe Effect			
Acetylene	1			1
Acetylene	A	B	A	A
Acetylene	1	2	1	1
Acetylene	1	1	1	
Acetylene	A-Excellent			
Acetylene Tetrabromide	1			1
Acetylene Tetrabromide	1	4	4	1
Acetylene Tetrachloride	1			1
Acetylene Tetrachloride	1	4	4	1
Acetylsalicylic Acid	4			1
Acetylsalicylic Acid	4	4	2	1
Acids, Non-organic	X			X
Acids, Non-organic	X	X	X	X
Acids, Organic	X			X

Chemical Substance	EPDM	SBR	NBR	FKM
Acids, Organic	X	X	X	X
Aconitic Acid	X			X
Aconitic Acid	X	X	X	X
Acridine	X			X
Acridine	X	X	X	X
Acrlylonitrile	D	D	D	C
Acrolein	1			3
Acrolein	1	1	3	3
Acrylic Acid	4			1
Acrylic Acid	4	4	2	1
Acrylonitrile	4			3
Acrylonitrile	4	3	4	3
Acrylonitrile	3	4	4	
Acrylonitrile	D-Severe Effect			
Adipic Acid	2			X
Adipic Acid	A	A	A	A
Adipic Acid	2	X	1	X
Adipic acid	0	0	1	
Adipic Acid	A-Excellent			
Aero Lubriplate	4			1
Aero Lubriplate	4	2	1	1
Aero Shell 17 Grease	4			1
Aero Shell 17 Grease	4	4	1	1
Aero Shell 750	4			1
Aero Shell 750	4	4	2	1
Aero Shell 7A Grease	4			1
Aero Shell 7A Grease	4	4	2	1
Aero Shell IAC	4			1
Aero Shell IAC	4	4	1	1
Aerosafe 2300	1			4
Aerosafe 2300	1	4	4	4
Aerosafe 2300W	1			4
Aerosafe 2300W	1	4	4	4
Aerozene 50 (50% Hydrazine 50% UDMH)	1			4
Aerozene 50 (50% Hydrazine 50% UDMH)	1	4	3	4
Air	1	1	1	
Air	1	2	0	
Air	2	3	3	
Air	3	4	4	
Air, 200 - 300° F	2	4	3	1
Air, 200 - 300ºF	2			1
Air, 300 - 400° F	4	4	4	1
Air, 300 - 400ºF	4			1
Air, 400 - 500° F	4	4	4	3
Air, 400 - 500ºF	4			3
Air, Below 200° F	1	2	2	1
Air, Below 200ºF	1			1
Alcohols:Benzyl	B-Good			
Alcohols:Butyl	A-Excellent			
Alcohols:Diacetone	A-Excellent			
Alcohols:Ethyl	A-Excellent			
Alcohols:Hexyl	C-Fair			
Alcohols:Isobutyl	A-Excellent			
Alcohols:Isopropyl	A-Excellent			
Alcohols:Methyl	A-Excellent			
Alcohols:Octyl	A-Excellent			
Alcohols:Propyl	A-Excellent			
Aliphatic Dicarboxylic Acid	4			1
Aliphatic Dicarboxylic Acid	4	4	2	1
Alkanes (Paraffin Hydrocarbons)	4			1
Alkanes (Paraffin Hydrocarbons)	4	4	1	1

Chemical Substance	EPDM	SBR	NBR	FKM
Alkanesulfonic Acid	4			1
Alkanesulfonic Acid	4	4	1	1
Alkazene	4			2
Alkazene	4	4	4	2
Alkazene (Dibromoethylbenzene)	D	D	D	B
Alkenes (Olefin Hydrocarbons)	4			1
Alkenes (Olefin Hydrocarbons)	4	4	2	1
Alkyl Acetone	1			3
Alkyl Acetone	1	1	3	3
Alkyl Alcohol	4			1
Alkyl Alcohol	4	4	1	1
Alkyl Amine	4			1
Alkyl Amine	4	4	1	1
Alkyl Aryl Sulfonates	4			1
Alkyl Aryl Sulfonates	4	4	1	1
Alkyl Aryl Sulfonics	4			1
Alkyl Aryl Sulfonics	4	4	1	1
Alkyl Benzene	4			1
Alkyl Benzene	4	4	2	1
Alkyl Chloride	4			1
Alkyl Chloride	4	4	2	1
Alkyl Sulfide	4	4	2	1
Alkyl Sulfide*	4			1
Alkylnaphthalene Sulfonic Acid	4			1
Alkylnaphthalene Sulfonic Acid	4	4	1	1
Allyl alcohol	0	0	1	
Allyl Chloride	4			1
Allyl Chloride	4	X	2	1
Allylidene Diacetate	1			3
Allylidene Diacetate	1	1	3	3
Alpha Picoline	1			3
Alpha Picoline	1	1	3	3
Aluminum Acetate	1			4
Aluminum Acetate	1	2	2	4
Aluminum Acetate (Aqueous)	A	B	B	D
Aluminum Bromide	1			1
Aluminum Bromide	1	1	1	1
Aluminum Chlorate	1			3
Aluminum Chlorate	1	1	3	3
Aluminum Chloride	1			1
Aluminum Chloride	1	1	1	1
Aluminum Chloride	A-Excellent			
Aluminum Chloride (Aqueous)	A	A	A	A
Aluminum Chloride 20%	A-Excellent			
Aluminum Ethylate	X			X
Aluminum Ethylate	X	X	X	X
Aluminum Fluoride	1			1
Aluminum Fluoride	1	1	1	1
Aluminum Fluoride	A-Excellent			
Aluminum Fluoride (Aqueous)	A	A	A	A
Aluminum Fluorosilicate	X	X	X	X
Aluminum Fluorosilicate*	X			X
Aluminum Formate	1			3
Aluminum Formate	1	1	3	3
Aluminum Hydroxide	1			2
Aluminum Hydroxide	1	X	2	2
Aluminum Hydroxide	A-Excellent			
Aluminum Linoleate	4			1
Aluminum Linoleate	4	4	1	1
Aluminum Nitrate	1			1
Aluminum Nitrate	1	1	1	1

Chemical Substance	EPDM	SBR	NBR	FKM
Aluminum Nitrate	A-Excellent			
Aluminum Nitrate (Aqueous)	A	A	A	A
Aluminum Oxalate	1			3
Aluminum Oxalate	1	1	3	3
Aluminum Phosphate	1			1
Aluminum Phosphate	1	X	1	1
Aluminum Phosphate (Aqueous)	A	A	A	A
Aluminum Potassium Sulfate	1			3
Aluminum Potassium Sulfate	1	1	3	3
Aluminum Potassium Sulfate 10%	A-Excellent			
Aluminum Potassium Sulfate 100%	A-Excellent			
Aluminum Salts	1			1
Aluminum Salts	1	1	1	1
Aluminum Sodium Sulfate	1			3
Aluminum Sodium Sulfate	1	1	3	3
Aluminum Sulfate	1			1
Aluminum Sulfate	1	2	1	1
Aluminum Sulfate	A-Excellent			
Aluminum Sulfate (Aqueous)	A	A	A	A
Alum-NH3-Cr-K (Aqueous)	A	A	A	D
Alums	A-Excellent			
Alums-NH3 -Cr -K	1			4
Alums-NH3 -Cr -K	1	1	1	4
Ambrex 33 (Mobil)	4			1
Ambrex 33 (Mobil)	4	4	1	1
Ambrex 830 (Mobil)	3			1
Ambrex 830 (Mobil)	3	4	1	1
Amines	B-Good			
Amines-Mixed	2			4
Amines-Mixed	2	2	4	4
Aminoanthraquinone	X			X
Aminoanthraquinone	X	X	X	X
Aminoazobenzene	X			X
Aminoazobenzene	X	X	X	X
Aminobenzene Sulfonic Acid	X			X
Aminobenzene Sulfonic Acid	X	X	X	X
Aminobenzoic Acid	X			X
Aminobenzoic Acid	X	X	X	X
Aminopyridine	X			X
Aminopyridine	X	X	X	X
Aminosalicylic Acid	X			X
Aminosalicylic Acid	X	X	X	X
Ammonia (Anhydrous)	1			4
Ammonia (Anhydrous)	1	4	2	4
Ammonia 10%	A-Excellent			
Ammonia and Lithium Metal in Solution	2			4
Ammonia and Lithium Metal in Solution	2	4	2	4
Ammonia Anhydrous	A	D	B	D
Ammonia anhydrous	1	0	1	
Ammonia Gas (cold)	A	A	A	D
Ammonia Gas (hot)	B	D	D	D
Ammonia Nitrate	A-Excellent			
Ammonia, anhydrous	A-Excellent			
Ammonia, gas	1	1	1	
Ammonia, gas	2	3	3	
Ammonia, Gas, Cold	1			4
Ammonia, Gas, Cold	1	1	1	4
Ammonia, Gas, Hot	2			4
Ammonia, Gas, Hot	2	4	4	4
Ammonia, liquid	1	1	1	
Ammonia, liquid	A-Excellent			

Chemical Substance	EPDM	SBR	NBR	FKM
Ammonia, Liquid (Anhydrous)	1			4
Ammonia, Liquid (Anhydrous)	1	4	2	4
Ammonium Acetate	1			3
Ammonium Acetate	1	1	3	3
Ammonium Acetate	A-Excellent			
Ammonium Arsenate	1			3
Ammonium Arsenate	1	1	3	3
Ammonium Benzoate	1			3
Ammonium Benzoate	1	1	3	3
Ammonium Bicarbonate	1			3
Ammonium Bicarbonate	1	1	3	3
Ammonium Bifluoride	A-Excellent			
Ammonium Bisulfite	1			3
Ammonium Bisulfite	1	1	3	3
Ammonium Bromide	1			1
Ammonium Bromide	1	1	1	1
Ammonium Carbamate	1			3
Ammonium Carbamate	1	1	3	3
Ammonium Carbonate	1			1
Ammonium Carbonate	1	1	4	1
Ammonium carbonate	1	1	4	
Ammonium Carbonate	A-Excellent			
Ammonium Carbonate (Aqueous)	*	A	D	A
Ammonium Chloride	A-Excellent			
Ammonium Chloride (Aqueous)	A	A	A	A
Ammonium Chloride, 2N	1			1
Ammonium Chloride, 2N	1	1	1	1
Ammonium Citrate	1			3
Ammonium Citrate	1	1	3	3
Ammonium Dichromate	1			3
Ammonium Dichromate	1	1	3	3
Ammonium Diphosphate	1			3
Ammonium Diphosphate	1	1	3	3
Ammonium Fluoride	1			1
Ammonium Fluoride	1	1	1	1
Ammonium Fluorosilicate	X	X	X	X
Ammonium Fluorosilicate*	X			X
Ammonium Formate	1			3
Ammonium Formate	1	1	3	3
Ammonium Hydroxide	A-Excellent			
Ammonium Hydroxide (conc.)	A	D	D	B
Ammonium Hydroxide, 3 Molar	1			3
Ammonium Hydroxide, 3 Molar	1	2	1	3
Ammonium hydroxide, conc. 10%	1	1	1	
Ammonium hydroxide, conc. Conc	1	1	2	
Ammonium Hydroxide, Concentrated	1			4
Ammonium Hydroxide, Concentrated	1	3	4	4
Ammonium Iodide	1			1
Ammonium Iodide	1	1	1	1
Ammonium Lactate	1			3
Ammonium Lactate	1	1	3	3
Ammonium Metaphosphate	1			3
Ammonium Metaphosphate	1	1	3	3
Ammonium Molybdenate	1	1	3	3
Ammonium Molybdenate*	1			3
Ammonium Nitrate	A-Excellent			
Ammonium Nitrate (Aqueous)	A	B	A	A
Ammonium Nitrate, 2N	1			X
Ammonium Nitrate, 2N	1	1	1	X
Ammonium Nitrite	1			X
Ammonium Nitrite	1	1	1	X

Chemical Substance	EPDM	SBR	NBR	FKM
Ammonium Nitrite (Aqueous)	A	A	A	A
Ammonium Oxalate	1			3
Ammonium Oxalate	1	1	3	3
Ammonium Oxalate	A-Excellent			
Ammonium Perchlorate	1			3
Ammonium Perchlorate	1	1	3	3
Ammonium Perchloride	X			X
Ammonium Perchloride	X	X	X	X
Ammonium Persulfate	B-Good			
Ammonium Persulfate (Aqueous)	A	D	D	A
Ammonium Persulfate 10%	1			X
Ammonium Persulfate 10%	1	4	4	X
Ammonium Persulfate Solution	1			X
Ammonium Persulfate Solution	1	4	4	X
Ammonium Phosphate	1			4
Ammonium Phosphate	1	1	1	4
Ammonium Phosphate (Aqueous)	A	A	A	A
Ammonium Phosphate, Dibasic	1			X
Ammonium Phosphate, Dibasic	1	1	1	X
Ammonium Phosphate, Dibasic	A-Excellent			
Ammonium Phosphate, Monobasic	A-Excellent			
Ammonium Phosphate, Mono-Basic	1			X
Ammonium Phosphate, Mono-Basic	1	1	1	X
Ammonium Phosphate, Tribasic	1			X
Ammonium Phosphate, Tribasic	1	1	1	X
Ammonium Phosphate, Tribasic	A-Excellent			
Ammonium Phosphite	1			3
Ammonium Phosphite	1	1	3	3
Ammonium Picrate	1			3
Ammonium Picrate	1	1	3	3
Ammonium Polysulfide	1			3
Ammonium Polysulfide	1	1	3	3
Ammonium Salicylate	1			3
Ammonium Salicylate	1	1	3	3
Ammonium Salts	1			3
Ammonium Salts	1	1	1	3
Ammonium Sulfamate	1			3
Ammonium Sulfamate	1	1	3	3
Ammonium Sulfate	1			4
Ammonium Sulfate	1	2	1	4
Ammonium Sulfate	A-Excellent			
Ammonium Sulfate (Aqueous)	A	A	A	B
Ammonium Sulfate Nitrate	1			4
Ammonium Sulfate Nitrate	1	2	1	4
Ammonium Sulfide	1			4
Ammonium Sulfide	1	2	1	4
Ammonium Sulfite	1			3
Ammonium Sulfite	1	1	3	3
Ammonium Sulfite	A-Excellent			
Ammonium Thiocyanate	1			3
Ammonium Thiocyanate	1	1	3	3
Ammonium Thioglycolate	1			3
Ammonium Thioglycolate	1	1	3	3
Ammonium Thiosulfate	1			3
Ammonium Thiosulfate	1	1	3	3
Ammonium Thiosulfate	A-Excellent			
Ammonium Tungstate	1			3
Ammonium Tungstate	1	1	3	3
Ammonium Valerate	1			3
Ammonium Valerate	1	1	3	3
Amyl Acetate	3			4

Chemical Substance	EPDM	SBR	NBR	FKM
Amyl Acetate	3	4	1	4
Amyl acetate	2	4	4	
Amyl Acetate	A-Excellent			
Amyl Acetate (Banana Oil)	C	D	D	D
Amyl Alcohol	1			2
Amyl Alcohol	A	B	B	B
Amyl Alcohol	1	2	2	2
Amyl Alcohol	A-Excellent			
Amyl alcohol (pentanol)	1	1	2	
Amyl Borate	4			1
Amyl Borate	D	D	A	A
Amyl Borate	4	4	1	1
Amyl borate	4	4	1	
Amyl Butyrate	4			1
Amyl Butyrate	4	4	1	1
Amyl Chloride	4			1
Amyl Chloride	4	4	X	1
Amyl Chloride	D-Severe Effect			
Amyl chloronaphtalene	4	4	4	
Amyl Chloronaphthalene	4			1
Amyl Chloronaphthalene	4	4	4	1
Amyl Chloronapthalene	D	D	D	A
Amyl Cinnamic Aldehyde	4			1
Amyl Cinnamic Aldehyde	4	4	2	1
Amyl Laurate	4			1
Amyl Laurate	4	4	2	1
Amyl Mercaptan	4			1
Amyl Mercaptan	4	4	2	1
Amyl naphtalene	4	4	3	
Amyl Naphthalene	4			1
Amyl Naphthalene	4	4	4	1
Amyl Napthalene	D	D	D	A
Amyl Nitrate	1			3
Amyl Nitrate	1	1	3	3
Amyl Nitrite	1			3
Amyl Nitrite	1	1	3	3
Amyl Phenol	X			X
Amyl Phenol	X	X	X	X
Amyl Propionate	4			1
Amyl Propionate	4	4	1	1
Anderol, L- 826 (di-ester)	4			1
Anderol, L- 826 (di-ester)	4	4	2	1
Anderol, L- 829 (di-ester)	4			1
Anderol, L- 829 (di-ester)	4	4	2	1
Anderol, L-774 (di-ester)	4			1
Anderol, L-774 (di-ester)	4	4	2	1
ANG-25 (Di-ester Base) (TG749)	4			1
ANG-25 (Di-ester Base) (TG749)	4	4	2	1
ANG-25 (Glyceral Ester)	1			1
ANG-25 (Glyceral Ester)	1	2	2	1
Aniline	2			3
Aniline	A	D	D	C
Aniline	2	4	4	3
Aniline	1	2	4	
Aniline	1	4	4	
Aniline	B-Good			
Aniline Dyes	2			2
Aniline Dyes	A	B	D	B
Aniline Dyes	2	2	4	2
Aniline Hydrochloride	2			2
Aniline Hydrochloride	B	D	B	B

Chemical Substance	EPDM	SBR	NBR	FKM
Aniline Hydrochloride	2	3	2	2
Aniline hydrochloride	2	3	2	
Aniline Hydrochloride	B-Good			
Aniline Oil	2			3
Aniline Oil	2	4	4	3
Aniline Sulfate	1			3
Aniline Sulfate	1	1	3	3
Aniline Sulfite	1			3
Aniline Sulfite	1	1	3	3
Animal Fats	2			1
Animal Fats	B	D	A	A
Animal Fats	2	X	1	1
Animal oil (bone oil)	2	4	1	
Animal Oil (Lard Oil)	2			1
Animal Oil (Lard Oil)	2	4	1	1
Anisole	X			X
Anisole	X	X	X	X
Anisoyl Chloride	X			X
Anisoyl Chloride	X	X	X	X
AN-O-3 Grade M	4			1
AN-O-3 Grade M	4	4	1	1
AN-O-366	4			1
AN-O-366	4	4	1	1
AN-O-6	4			1
AN-O-6	4	4	1	1
Ansul Ether (Anesthetics)	C	D	C	D
Ansul Ether 161 or 181	3			4
Ansul Ether 161 or 181	3	4	3	4
Anthracene	4			1
Anthracene	4	4	2	1
Anthranilic Acid	X			X
Anthranilic Acid	X	X	X	X
Anthraquinone	X			X
Anthraquinone	X	X	X	X
Antifreeze	A-Excellent			
Antifreeze (ethylene glycol and methanol)	1	1	1	
Anti-freeze Solutions	1			3
Anti-freeze Solutions	1	1	3	3
Antimony Chloride	4			1
Antimony Chloride	4	4	1	1
Antimony Pentachloride	4			1
Antimony Pentachloride	4	4	1	1
Antimony Pentafluoride	X			X
Antimony Pentafluoride	X	X	X	X
Antimony Sulfate	X			X
Antimony Sulfate	X	X	X	X
Antimony Tribromide	4			1
Antimony Tribromide	4	4	1	1
Antimony Trichloride	4			1
Antimony Trichloride	4	4	1	1
Antimony Trichloride	B-Good			
Antimony Trifluoride	4			1
Antimony Trifluoride	4	4	1	1
Antimony Trioxide	4			1
Antimony Trioxide	4	4	1	1
AN-VV-O-366b Hydr. Fluid	4			1
AN-VV-O-366b Hydr. Fluid	4	4	1	1
Aqua Regia	3			2
Aqua Regia	C	D	D	B
Aqua Regia	3	X	4	2
Aqua Regia (80% HCl, 20% HNO3)	C-Fair			

Chemical Substance	EPDM	SBR	NBR	FKM
Arachidic Acid	X			X
Arachidic Acid	X	X	X	X
Argon	1			1
Argon	1	1	1	1
Arochlor 1248	B-Good			
Aroclor, 1248	2			1
Aroclor, 1248	C	D	C	A
Aroclor, 1248	2	4	3	1
Aroclor, 1254	2			1
Aroclor, 1254	C	D	D	A
Aroclor, 1254	2	4	4	1
Aroclor, 1260	x			1
Aroclor, 1260	A	A	A	A
Aroclor, 1260	X	1	1	1
Aromatic Fuel -50%	4			1
Aromatic Fuel -50%	4	4	2	1
Aromatic Hydrocarbons	D-Severe Effect			
Arsenic Acid	1			1
Arsenic Acid	A	A	A	A
Arsenic Acid	1	1	1	1
Arsenic acid	1	1	2	
Arsenic Acid	A-Excellent			
Arsenic Oxide	X			X
Arsenic Oxide	X	X	X	X
Arsenic Trichloride	4			4
Arsenic Trichloride	4	X	1	4
Arsenic Trichloride (Aqueous)	C	D	A	D
Arsenic Trioxide	4			4
Arsenic Trioxide	4	X	1	4
Arsenic Trisulfide	4			4
Arsenic Trisulfide	4	X	1	4
Arsenites	X			X
Arsenites	X	X	X	X
Arsine	X			X
Arsine	X	X	X	X
Aryl Orthosilicate	X			X
Aryl Orthosilicate	X	X	X	X
Ascorbic Acid	1			3
Ascorbic Acid	1	1	3	3
Askarel	D	D	B	A
Askarel Transformer Oil	4			1
Askarel Transformer Oil	4	4	2	1
Aspartic Acid	1			3
Aspartic Acid	1	1	3	3
Asphalt	4			1
Asphalt	D	D	B	A
Asphalt	4	4	2	1
Asphalt	4	4	2	
Asphalt	D-Severe Effect			
ASTM Oil, No. 1	4			1
ASTM Oil, No. 1	4	4	1	1
ASTM Oil, No. 2	4			1
ASTM Oil, No. 2	4	4	1	1
ASTM Oil, No. 3	4			1
ASTM Oil, No. 3	4	4	1	1
ASTM Oil, No. 4	4			1
ASTM Oil, No. 4	4	4	2	1
ASTM Oil, No. 5	4			1
ASTM Oil, No. 5	4	X	1	1
ASTM Reference Fuel A	4			1
ASTM Reference Fuel A	4	4	1	1

Chemical Substance	EPDM	SBR	NBR	FKM
ASTM Reference Fuel B	4			1
ASTM Reference Fuel B	4	4	1	1
ASTM Reference Fuel C	4			1
ASTM Reference Fuel C	4	4	2	1
ASTM Reference Fuel D	4			1
ASTM Reference Fuel D	4	X	2	1
ATL-857	4			1
ATL-857	4	4	2	1
Atlantic Dominion F	4			1
Atlantic Dominion F	4	4	1	1
Atlantic Utro Gear-e	4			1
Atlantic Utro Gear-e	4	X	1	1
Atlantic Utro Gear-EP Lube	4			1
Atlantic Utro Gear-EP Lube	4	4	1	1
Aure 903R (Mobil)	4			1
Aure 903R (Mobil)	4	4	1	1
AUREX 256	X			X
AUREX 256	X	X	X	X
Automatic Transmission Fluid	4			1
Automatic Transmission Fluid	4	4	1	1
Automotive Brake Fluid	1			4
Automotive Brake Fluid	1	1	3	4
AXAREL 9100	X			X
AXAREL 9100	X	X	X	X
Azobenzene	X			X
Azobenzene	X	X	X	X
Banana Oil (Amyl Acetate)	C	D	D	D
Bardol B	4			1
Bardol B	4	4	4	1
Barium Carbonate	1			3
Barium Carbonate	1	1	3	3
Barium Carbonate	A-Excellent			
Barium Chlorate	1			3
Barium Chlorate	1	1	3	3
Barium Chloride	1			1
Barium Chloride	1	1	1	1
Barium Chloride	A-Excellent			
Barium Chloride (Aqueous)	A	A	A	A
Barium Cyanide	1			1
Barium Cyanide	1	1	1	1
Barium Cyanide	A-Excellent			
Barium Hydroxide	1			1
Barium Hydroxide	1	1	1	1
Barium hydroxide	0	1	1	
Barium Hydroxide	A-Excellent			
Barium Hydroxide (Aqueous)	A	A	A	A
Barium Iodide	1			1
Barium Iodide	1	1	1	1
Barium Nitrate	1			3
Barium Nitrate	1	1	3	3
Barium Nitrate	A-Excellent			
Barium Oxide	1			1
Barium Oxide	1	1	1	1
Barium Peroxide	1			3
Barium Peroxide	1	1	3	3
Barium Polysulfide	1			3
Barium Polysulfide	1	1	3	3
Barium Salts	1			1
Barium Salts	1	1	1	1
Barium Sulfate	1			1
Barium Sulfate	1	X	1	1

Chemical Substance	EPDM	SBR	NBR	FKM
Barium Sulfate	A-Excellent			
Barium Sulfate (Aqueous)	A	A	A	A
Barium Sulfide	1			1
Barium Sulfide	1	2	1	1
Barium Sulfide	A-Excellent			
Barium Sulfide (Aqueous)	A	B	A	A
Bayol 35	4			1
Bayol 35	4	4	1	1
Bayol D	4			1
Bayol D	4	4	1	1
Beer	1			1
Beer	A	A	A	A
Beer	1	1	1	1
Beer	A-Excellent			
Beet Sugar Liqours	A	A	A	A
Beet Sugar Liquids	1			1
Beet Sugar Liquids	1	X	1	1
Beet Sugar Liquids	A-Excellent			
Beet Sugar Liquors	1			1
Beet Sugar Liquors	1	1	1	1
Benzaldehyde	1			4
Benzaldehyde	A	D	D	D
Benzaldehyde	1	4	4	4
Benzaldehyde	1	4	4	
Benzaldehyde	A-Excellent			
Benzaldehyde Disulfonic Acid	X			X
Benzaldehyde Disulfonic Acid	X	X	X	X
Benzamide	4			1
Benzamide	4	4	2	1
Benzanthrone	4			1
Benzanthrone	4	4	2	1
Benzene	4			1
Benzene	D	D	D	A
Benzene	4	4	4	1
Benzene	4	4	4	
Benzene	D-Severe Effect			
Benzene Hexachloride	X			X
Benzene Hexachloride	X	X	X	X
Benzene Sulfonic Acid	D-Severe Effect			
Benzene Sulfonic Acid (Nitrobenzine) (Pet Ether)	C	D	D	A
Benzenesulfonic Acid 10%	4			1
Benzenesulfonic Acid 10%	4	4	4	1
Benzidine	4			1
Benzidine	4	4	2	1
Benzidine 3 Sulfonic Acid	4			1
Benzidine 3 Sulfonic Acid	4	4	2	1
Benzil	4			1
Benzil	4	4	2	1
Benzilic Acid	4			1
Benzilic Acid	4	4	2	1
Benzine (Ligroin)	4			1
Benzine (Ligroin)	D	D	A	A
Benzine (Ligroin)	4	4	1	1
Benzocatechol	4			1
Benzocatechol	4	4	2	1
Benzochloride	1			1
Benzochloride	1	4	4	1
Benzoic Acid	4			1
Benzoic Acid	C	D	C	A
Benzoic Acid	4	4	4	1

Chemical Substance	EPDM	SBR	NBR	FKM
Benzoic acid	1	1	1	
Benzoic Acid	D-Severe Effect			
Benzoin	4			1
Benzoin	4	4	2	1
Benzol	D-Severe Effect			
Benzonitrile	1			3
Benzonitrile	1	1	3	3
Benzophenone	2			1
Benzophenone	2	4	X	1
Benzoquinone	2			1
Benzoquinone	2	4	X	1
Benzotrichloride	1			1
Benzotrichloride	1	X	4	1
Benzotrifluoride	1			1
Benzotrifluoride	1	X	4	1
Benzoyl Chloride	X			1
Benzoyl Chloride	D	D	D	B
Benzoyl Chloride	X	4	X	1
Benzoyl Peroxide	X			X
Benzoyl Peroxide	X	X	X	X
Benzoylsulfonilic Acid	4			1
Benzoylsulfonilic Acid	4	4	2	1
Benzyl Acetate	1			3
Benzyl Acetate	1	1	3	3
Benzyl Alcohol	2			1
Benzyl Alcohol	A	D	D	A
Benzyl Alcohol	2	4	4	1
Benzyl alcohol	1	2	4	
Benzyl Amine	X			X
Benzyl Amine	X	X	X	X
Benzyl Benzoate	4			1
Benzyl Benzoate	B	D	D	A
Benzyl Benzoate	4	4	4	1
Benzyl benzoate	2	4	4	
Benzyl Bromide	4			1
Benzyl Bromide	4	4	4	1
Benzyl Butyl Phthalate	1			3
Benzyl Butyl Phthalate	1	1	3	3
Benzyl Chloride	4			1
Benzyl Chloride	D	D	D	A
Benzyl Chloride	4	4	4	1
Benzyl chloride	4	3	4	
Benzyl Chloride	D-Severe Effect			
Benzyl Phenol	4			1
Benzyl Phenol	4	4	2	1
Benzyl Salicylate	4			1
Benzyl Salicylate	4	4	2	1
Beryllium Chloride	1			1
Beryllium Chloride	1	3	1	1
Beryllium Fluoride	1			1
Beryllium Fluoride	1	3	1	1
Beryllium Oxide	1			1
Beryllium Oxide	1	3	1	1
Beryllium Sulfate	1			3
Beryllium Sulfate	1	1	3	3
Biphenyl (Diphenyl) (Phenylbenzene)	D	D	D	A
Bismuth Carbonate	1			3
Bismuth Carbonate	1	1	3	3
Bismuth Nitrate	1			3
Bismuth Nitrate	1	1	3	3
Bismuth Oxychloride	1			3

Chemical Substance	EPDM	SBR	NBR	FKM
Bismuth Oxychloride	1	1	3	3
Bittern	X			X
Bittern	X	X	X	X
Black Liquor	1			1
Black Liquor	1	X	2	1
Black Point 77	1			1
Black Point 77	1	3	1	1
Blast Furnace Gas	4			1
Blast Furnace Gas	D	D	D	A
Blast Furnace Gas	4	4	4	1
Bleach Liquor	1			1
Bleach Liquor	1	3	3	1
Bleach Solutions	1			1
Bleach Solutions	A	D	D	A
Bleach Solutions	1	X	X	1
Bleaching Liquors	A-Excellent			
Borax	1			1
Borax	A	B	B	A
Borax	1	2	2	1
Borax (Sodium Borate)	A-Excellent			
Borax Solutions	1			1
Borax Solutions	1	X	X	1
Bordeaux Mixture	1			1
Bordeaux Mixture	A	B	B	A
Bordeaux Mixture	1	2	2	1
Boric acid 10%	1	1	1	
Boric Acid	1			1
Boric Acid	1	1	1	1
Boric Acid	A-Excellent			
Boric Oxide	1			3
Boric Oxide	1	1	3	3
Borneol	4			1
Borneol	4	4	2	1
Bornyl Acetate	4			1
Bornyl Acetate	4	4	2	1
Bornyl Chloride	4			1
Bornyl Chloride	4	4	2	1
Bornyl Formate	4			1
Bornyl Formate	4	4	2	1
Boron Fluids (HEF)	4			1
Boron Fluids (HEF)	4	4	2	1
Boron Hydride	X			X
Boron Hydride	X	X	X	X
Boron Phosphate	X			X
Boron Phosphate	X	X	X	X
Boron Tribromide	X			X
Boron Tribromide	X	X	X	X
Boron Trichloride	X			X
Boron Trichloride	X	X	X	X
Boron Trifluoride	X			X
Boron Trifluoride	X	X	X	X
Boron Trioxide	X			X
Boron Trioxide	X	X	X	X
Brake fluid	1	1	4	
Brake Fluid DOT3 (Glycol Type)	1			4
Brake Fluid DOT3 (Glycol Type)	1	1	3	4
Bray GG-130	4			1
Bray GG-130	4	4	2	1
Brayco 719-R (VV-H-910)	1			4
Brayco 719-R (VV-H-910)	1	X	3	4
Brayco 885 (MIL-L-6085A)	4			1

Chemical Substance	EPDM	SBR	NBR	FKM
Brayco 885 (MIL-L-6085A)	4	4	2	1
Brayco 910	1			4
Brayco 910	1	2	2	4
Bret 710	1			4
Bret 710	1	2	2	4
Brine	1			1
Brine	A	A	A	A
Brine	1	X	1	1
Brine (Seawater)	3			1
Brine (Seawater)	3	X	1	1
Brom - 113	4			X
Brom - 113	4	4	3	X
Brom - 114	4			2
Brom - 114	4	4	2	2
Bromic Acid	1			3
Bromic Acid	1	1	3	3
Bromine	4			1
Bromine	4	4	4	1
Bromine	0	4	4	
Bromine	D-Severe Effect			
Bromine Pentafluoride	4	4	4	4
Bromine Pentafluoride Factory	4			4
Bromine Trifluoride	D	D	D	D
Bromine Trifluoride	4	4	4	4
Bromine Trifluoride Factory	4			4
Bromine Water	2			1
Bromine Water	B	D	D	A
Bromine Water	2	4	4	1
Bromine-Anydrous	D	D	D	A
Bromobenzene	4			1
Bromobenzene	D	D	D	A
Bromobenzene	4	4	4	1
Bromobenzene Cyanide	1			3
Bromobenzene Cyanide	1	1	3	3
Bromochlorotrifluoroethane (Halothane)	4			1
Bromochlorotrifluoroethane (Halothane)	4	4	4	1
Bromoform	4			1
Bromoform	4	4	2	1
Bromomethane (Methyl Bromide)	4			1
Bromomethane (Methyl Bromide)	4	4	2	1
Bromotrifluoroethylene (BFE)	X			X
Bromotrifluoroethylene (BFE)	X	X	X	X
Bromotrifluoromethane (F-13B1)	X			X
Bromotrifluoromethane (F-13B1)	X	X	X	X
Brucine Sulfate	1			3
Brucine Sulfate	1	1	3	3
Buffered Oxide Etchants	X			X
Buffered Oxide Etchants	X	X	X	X
Bunker Oil	4			1
Bunker Oil	D	D	A	A
Bunker Oil	4	4	1	1
Bunker oil	4	4	1	
Bunker’s “C” (Fuel Oil)	X			1
Bunker’s “C” (Fuel Oil)	X	X	1	1
Butadiene	C	D	D	A
Butadiene	C-Fair			
Butadiene (Monomer)	4			1
Butadiene (Monomer)	4	4	4	1
Butane	4			1
Butane	4	3	1	1
Butane	D-Severe Effect			

Chemical Substance	EPDM	SBR	NBR	FKM
Butane liquid	4	4	1	
Butane, 2, 2-Dimethyl	4			1
Butane, 2, 2-Dimethyl	4	3	1	1
Butane, 2, 3-Dimethyl	4			1
Butane, 2, 3-Dimethyl	4	3	1	1
Butanedial	1			3
Butanedial	1	1	3	3
Butanediol	1	0	4	
Butanol	1	1	1	
Butanol	0	4	1	
Butanol (Butyl Alcohol)	2			1
Butanol (Butyl Alcohol)	2	1	1	1
Butanol (Butyl Alcohol)	A-Excellent			
Butene	4	4	1	
Butene 2-Ethyl (1-Butene 2-Ethyl)	4			1
Butene 2-Ethyl (1-Butene 2-Ethyl)	4	4	1	1
Butter	A-Excellent			
Butter (Animal Fat)	A	D	A	A
Butter (water-free)	3	4	1	
Butter-Animal Fat	1			1
Butter-Animal Fat	1	4	1	1
Buttermilk	A-Excellent			
Butyl Acetate	C	D	D	D
Butyl acetate	2	4	4	
Butyl Acetate or n-Butyl Acetate	2			4
Butyl Acetate or n-Butyl Acetate	2	4	4	4
Butyl Acetate Ricinoleate	A	D	C	A
Butyl Acetyl Ricinoleate	1			1
Butyl Acetyl Ricinoleate	1	4	2	1
Butyl Acrylate	1			4
Butyl Acrylate	D	D	D	D
Butyl Acrylate	1	4	4	4
Butyl acrylate	4	4	4	
Butyl Alcohol	2			1
Butyl Alcohol	B	A	A	A
Butyl Alcohol	2	1	1	1
Butyl Alcohol (Secondary)	2			1
Butyl Alcohol (Secondary)	2	2	2	1
Butyl Alcohol (Tertiary)	2			1
Butyl Alcohol (Tertiary)	2	2	2	1
Butyl Amine	B	D	C	D
Butyl Amine or N-Butyl Amine	3			4
Butyl Amine or N-Butyl Amine	3	4	1	4
Butyl Benzoate	1			3
Butyl Benzoate	B	B	D	A
Butyl Benzoate	1	1	3	3
Butyl benzoate	1	0	0	
Butyl Benzoate or n-Butyl Benzoate	1			1
Butyl Benzoate or n-Butyl Benzoate	1	4	4	1
Butyl Benzolate	X			X
Butyl Benzolate	X	X	X	X
Butyl Butyrate or n-Butyl Butyrate	1			1
Butyl Butyrate or n-Butyl Butyrate	1	4	4	1
Butyl Carbitol	1			3
Butyl Carbitol	A	D	D	C
Butyl Carbitol	1	4	4	3
Butyl carbitol	1	2	3	
Butyl Cellosolve	2			4
Butyl Cellosolve	A	D	C	D
Butyl Cellosolve	2	4	3	4
Butyl Cellosolve Acetate	1			3

Chemical Substance	EPDM	SBR	NBR	FKM
Butyl Cellosolve Acetate	1	1	3	3
Butyl Cellosolve Adipate	2			2
Butyl Cellosolve Adipate	2	4	4	2
Butyl Chloride	4			1
Butyl Chloride	4	4	1	1
Butyl Ether	D-Severe Effect			
Butyl Ether or n-Butyl Ether	3			4
Butyl Ether or n-Butyl Ether	3	4	3	4
Butyl glycol (butyl cellosolve)	1	2	3	
Butyl Glycolate	1			3
Butyl Glycolate	1	1	3	3
Butyl Lactate	1			3
Butyl Lactate	1	1	3	3
Butyl Laurate	1			3
Butyl Laurate	1	1	3	3
Butyl Mercaptan (Tertiary)	4			1
Butyl Mercaptan (Tertiary)	4	4	4	1
Butyl Methacrylate	1			3
Butyl Methacrylate	1	1	3	3
Butyl Oleate	2			1
Butyl Oleate	B	D	D	A
Butyl Oleate	2	4	4	1
Butyl oleate	2	4	0	
Butyl Oxalate	1			3
Butyl Oxalate	1	1	3	3
Butyl phenol	4	0	4	
Butyl Phthalate	B-Good			
Butyl Stearate	4			1
Butyl Stearate	C	D	B	A
Butyl Stearate	4	4	2	1
Butyl stearate	3	4	1	
Butylacetate	B-Good			
Butylamine	4	4	4	
Butylbenzoic Acid	4			1
Butylbenzoic Acid	4	4	2	1
Butylene	4			1
Butylene	D	D	B	A
Butylene	4	4	2	1
Butylene	4	4	2	
Butylene	D-Severe Effect			
Butyraldehyde	2			4
Butyraldehyde	B	D	D	D
Butyraldehyde	2	4	4	4
Butyraldehyde	2	3	3	
Butyric Acid	2			2
Butyric Acid	2	4	4	2
Butyric acid	2	0	4	
Butyric Acid	B-Good			
Butyric Anhydride	1			3
Butyric Anhydride	1	1	3	3
Butyrolacetone	1			3
Butyrolacetone	1	1	3	3
Butyryl Chloride	4			1
Cadmium Chloride	1			3
Cadmium Cyanide	1			3
Cadmium Nitrate	1			3
Cadmium Oxide	1			3
Cadmium Sulfate	1			3
Cadmium Sulfide	1			3
Calcine Liquors	1			1
Calcium Acetate	1			4

Chemical Substance	EPDM	SBR	NBR	FKM
Calcium Acetate (Aqueous)	A	D	B	D
Calcium Arsenate	1			3
Calcium Benzoate	4			1
Calcium Bicarbonate	1			3
Calcium Bisulfate	A-Excellent			
Calcium Bisulfide	1			3
Calcium Bisulfide	C-Fair			
Calcium Bisulfite	1			2
Calcium Bisulfite	D-Severe Effect			
Calcium Bisulfite (Aqueous)	D	D	D	A
Calcium Bromide	1			1
Calcium Carbide	X			X
Calcium Carbonate	1			1
Calcium Carbonate	A-Excellent			
Calcium Chlorate	1			3
Calcium Chlorate	A-Excellent			
Calcium Chloride	1			1
Calcium Chloride	A-Excellent			
Calcium Chloride (Aqueous)	A	A	A	A
Calcium Chromate	1			3
Calcium Cyanamide	X			X
Calcium Cyanide	1			X
Calcium Fluoride	1			1
Calcium Gluconate	1			3
Calcium Hydride	1			1
Calcium Hydrosulfide	1			3
Calcium hydroxid	0	1	2	
Calcium Hydroxide	1			1
Calcium Hydroxide	A-Excellent			
Calcium Hydroxide (Aqueous)	A	A	A	A
Calcium hypochlorite 15%	1	0	3	
Calcium Hypochlorite	1			1
Calcium Hypochlorite	B-Good			
Calcium Hypochlorite (Aqueous)	A	C	B	A
Calcium Hypophosphite	1			3
Calcium Lactate	1			3
Calcium Naphthenate	X			X
Calcium Nitrate	1			1
Calcium Nitrate	A-Excellent			
Calcium Nitrate (Aqueous)	A	A	A	A
Calcium Oxalate	1			3
Calcium Oxide	1			1
Calcium Oxide	A-Excellent			
Calcium Permanganate	X			X
Calcium Peroxide	X			X
Calcium Phenolsulfonate	1			3
Calcium Phosphate	1			1
Calcium Phosphate Acid	1			3
Calcium Propionate	1			3
Calcium Pyridine Sulfonate	X			X
Calcium Salts	1			1
Calcium Silicate	1			1
Calcium Stearate	4			1
Calcium Sulfamate	4			1
Calcium Sulfate	1			3
Calcium Sulfate	A-Excellent			
Calcium Sulfide	1			1
Calcium Sulfide (Aqueous)	A	B	A	A
Calcium Sulfite	1			1
Calcium Thiocyanate	1			3
Calcium Thiosulfate	1			1

Chemical Substance	EPDM	SBR	NBR	FKM
Calcium Tungstate	1			3
Calgon	A-Excellent			
Caliche Liquors	1			1
Camphene	4			1
Camphor	4			1
Camphoric Acid	4			1
Cane Juice	A-Excellent			
Cane sugar / Sucrose solution	1	0	1	
Cane Sugar Liqours	A	A	A	A
Cane Sugar Liquors	1			1
Capric Acid	4			1
Caproic Acid	4			1
Caproic Aldehyde	2			4
Caprolactam	4			1
Capronaldehyde	4			1
Carbamate	2			1
Carbamate	B	D	C	A
Carbazole	X			X
Carbitol	2			2
Carbitol	B	B	B	B
Carbitol	2	2	3	
Carbolic Acid (Phenol)	2			1
Carbolic Acid (Phenol)	B	D	D	A
Carbolic Acid (Phenol)	B-Good			
Carbon Bisulfide	4			1
Carbon Bisulfide	D	D	C	A
Carbon Bisulfide	D-Severe Effect			
Carbon Dioxide	1			1
Carbon Dioxide	B	B	A	A
Carbon dioxide	1	1	1	
Carbon Dioxide (dry)	B-Good			
Carbon Dioxide (Explosive Decompression Use)	1			1
Carbon Dioxide (wet)	B-Good			
Carbon Disulfide	4			1
Carbon disulfide	4	4	3	
Carbon Disulfide	D-Severe Effect			
Carbon Fluorides	4			1
Carbon Monoxide	1			1
Carbon Monoxide	A	B	A	A
Carbon monoxide	1	2	1	
Carbon Monoxide	A-Excellent			
Carbon Tetrabromide	X			X
Carbon Tetrachloride	4			1
Carbon Tetrachloride	D	D	C	A
Carbon tetrachloride	4	4	3	
Carbon Tetrachloride	D-Severe Effect			
Carbon Tetrachloride (dry)	B-Good			
Carbon Tetrachloride (wet)	D-Severe Effect			
Carbon Tetrafluoride	4			1
Carbonic Acid	1			1
Carbonic Acid	A	B	B	A
Carbonic Acid	B-Good			
Casein	1			3
Castor Oil	2			1
Castor Oil	B	A	A	A
Castor oil	1	1	2	
Catsup	A-Excellent			
Caustic Lime	1			3
Caustic Potash	1			3
Caustic Soda (Sodium Hydroxide)	1			3

Chemical Substance	EPDM	SBR	NBR	FKM
Cellosolve	2			4
Cellosolve	B	D	D	C
Cellosolve	2	3	3	
Cellosolve Acetate	B	D	D	D
Cellosolve acetate	1	3	4	
Cellosolve, Acetate	2			4
Cellosolve, Butyl	2			4
Celluguard	1			1
Cellulose Acetate	1			3
Cellulose Acetate Butyrate	1			3
Cellulose Ether	1			3
Cellulose Nitrate*	1			3
Cellulose Tripropionate	1			3
Cellulube (Fryquel)	A	D	D	A
Cellulube (Phosphate Esters)	X			X
Cellutherm 2505A	4			1
Cerium Sulfate	1			3
Cerous Chloride	1			3
Cerous Fluoride	1			3
Cerous Nitrate	1			3
Cetane (Hexadecane)	4			1
Cetyl Alcohol	4			1
Chaulmoogric Acid	X			X
China Wood Oil (Tung Oil)	4			1
China Wood Oil (Tung Oil)	C	D	A	A
Chloral	1			3
Chloral hydrate 98%	3	0	4	
Chloramine	X			X
Chloranthraquinone	4			1
Chlordane	4			1
Chlorextol	4			1
Chloric acid 20%	1	0	4	
Chloric Acid	1			3
Chlorinated Glue	B-Good			
Chlorinated Solvents, Dry	4			1
Chlorinated Solvents, Wet	4			1
Chlorine (Dry)	4			1
Chlorine (Dry)	D	D	D	A
Chlorine (dry)	A-Excellent			
Chlorine (Plasma)	X			X
Chlorine (Wet)	X			X
Chlorine (Wet)	C	D	D	B
Chlorine Dioxide	3			1
Chlorine Dioxide	C	D	D	A
Chlorine dioxide	3	0	4	
Chlorine Dioxide, 8% Cl as NaClO2 in solution	4			1
Chlorine Trifluoride	4			4
Chlorine Trifluoride	D	D	D	D
Chlorine trifluoride	4	0	4	
Chlorine Water	2			1
Chlorine water	4	4	4	
Chlorine Water	C-Fair			
Chlorine, Anhydrous Liquid	B-Good			
Chlorine, gas	3	3	0	
Chloro 1-Nitro Ethane (1-Chloro 1-Nitro Ethane)	4			4
Chloro acetic acid	2	3	3	
Chloro Oxyfluorides	X			X
Chloro Xylenols	4			1
Chloroacetaldehyde	1			3

Chemical Substance	EPDM	SBR	NBR	FKM
Chloroacetic Acid	2			4
Chloroacetic Acid	A	D	D	D
Chloroacetic Acid	B-Good			
Chloroacetone	1			4
Chloroacetone	A	D	D	D
Chloroacetone	1	0	4	
Chloroacetyl Chloride	X			X
Chloroamino Benzoic Acid	1			3
Chloroaniline	1			3
Chlorobenzaldehyde	1			3
Chlorobenzene	4			1
Chlorobenzene	4	4	4	
Chlorobenzene (Mono)	4			1
Chlorobenzene (Mono)	D-Severe Effect			
Chlorobenzene Chloride	4			1
Chlorobenzene Trifluoride	4			1
Chlorobenzochloride	4			1
Chlorobenzotrifluoride	4			1
Chlorobromo Methane	2			1
Chlorobromomethane	B	D	D	A
Chlorobromomethane	3	4	4	
Chlorobromomethane	B-Good			
Chlorobromopropane	4			1
Chlorobutadiene	4			1
Chlorobutadiene	D	D	D	A
Chlorobutane (Butyl Chloride)	4			1
Chlorododecane	4			1
Chlorododecane	D	D	D	A
Chloroethane	4			1
Chloroethane Sulfonic Acid	1			3
Chloroethylbenzene	4			1
Chloroform	4			1
Chloroform	D	D	D	A
Chloroform	4	4	4	
Chloroform	D-Severe Effect			
Chlorohydrin	1			3
Chloronaphthalene or o-Chloronaphthalene	4			1
Chloronitrobenzene	1			3
Chlorophenol or o-Chlorophenol	4			1
Chloropicrin	4			1
Chloroprene	4			1
Chloroprene	4	4	4	
Chlorosilanes	X			X
Chlorosulfonic Acid	4			4
Chlorosulfonic Acid	D	D	D	D
Chlorosulfonic Acid	D-Severe Effect			
Chlorotoluene	4			1
Chlorotoluene	D	D	D	A
Chlorotoluene Sulfonic Acid	1			3
Chlorotoluidine	4			1
Chlorotrifluoroethylene (CTFE)	X			X
Chlorox	2			1
Chlorox (Sodium Hypochlorite NAOCl)	B	D	B	A
Chloroxylols	X			X
Chocolate Syrup	A-Excellent			
Cholesterol	4			1
Cholorobenzene	D	D	D	A
Chrome Alum	1			1
Chrome Plating Solutions	2			1
Chrome Plating Solutions	B	D	D	A
Chromic acid 40%	3	4	4	

Chemical Substance	EPDM	SBR	NBR	FKM
Chromic Acid	2			1
Chromic Acid	C	D	D	A
Chromic Acid 10%	C-Fair			
Chromic Acid 30%	B-Good			
Chromic Acid 5%	A-Excellent			
Chromic Acid 50%	B-Good			
Chromic Chloride	X			X
Chromic Fluorides	X			X
Chromic Hydroxide	X			X
Chromic Nitrates	X			X
Chromic Oxide	2			1
Chromic Phosphate	X			X
Chromic Sulfate	X			X
Chromium Potassium Sulfate (Alum)	2			1
Chromyl Chlorides	X			X
Cider	A-Excellent			
Cinnamic Acid	4			1
Cinnamic Alcohol	4			1
Cinnamic Aldehyde	4			1
Circo Light Process Oil	4			1
Citric Acid	1			1
Citric Acid	A	A	A	A
Citric acid	1	1	2	
Citric Acid	A-Excellent			
Citric Oils	B-Good			
City Service #65 #120 #250	4			1
City Service Koolmoter-AP Gear Oil 140-EP Lube	4			1
City Service Pacemaker #2	4			1
Clorox	2			1
Clorox® (Bleach)	B-Good			
Coal Tar	X			1
Coal Tar (Creosote)	D	D	A	A
Coal tar oil	4	4	2	
Cobalt Chloride	1			1
Cobalt Chloride (Aqueous)	A	A	A	A
Cobalt Chloride, 2N	1			1
Cobaltous Acetate	1			3
Cobaltous Bromide	1			1
Cobaltous Linoleate	X			X
Cobaltous Naphthenate	X			X
Cobaltous Sulfate	1			3
Cocoanut Oil	C	D	A	A
Coconut Oil	3			1
Coconut oil	2	4	1	
Cod Liver Oil	1			1
Cod Liver Oil	A	D	A	A
Cod liver oil	2	4	1	
Codeine	4			1
Coffee	1			1
Coffee	A-Excellent			
Coke Oven Gas	4			1
Coke Oven Gas	D	D	D	A
Coke oven gas	4	2	2	
Coliche Liquors	2			X
Convelex 10	X			X
Coolanol 20 25R 35R 40& 45A (Monsanto)	3			1
Copper Acetate	1			4
Copper Acetate (Aqueous)	A	D	B	D
Copper Ammonium Acetate	1			3
Copper Carbonate	1			3

Chemical Substance	EPDM	SBR	NBR	FKM
Copper Chloride	1			1
Copper Chloride	A-Excellent			
Copper Chloride (Aqueous)	A	A	A	A
Copper Cyanide	1			1
Copper Cyanide	A-Excellent			
Copper Cyanide (Aqueous)	A	A	A	A
Copper Gluconate	1			3
Copper Naphthenate	X			X
Copper Nitrate	2			1
Copper Oxide	1			1
Copper Salts	1			1
Copper Sulfate	1			1
Copper Sulfate (Aqueous)	A	B	A	A
Copper Sulfate >5%	A-Excellent			
Copper Sulfate 10%	1			1
Copper Sulfate 5%	A-Excellent			
Copper Sulfate 50%	1			1
Corn Oil	3			1
Corn Oil	C	D	A	A
Corn oil	2	4	1	
Cotton seed oil	2	4	1	
Cottonseed Oil	3			1
Cottonseed Oil	B	D	A	A
Creosote (Coal Tar)	D	D	A	A
Creosote, Coal Tar	4			1
Creosote, Wood	4			1
Cresol	D	D	D	A
Cresol (Methyl Phenol)	X			1
Cresols	4			2
Cresols	D-Severe Effect			
Cresylic Acid	4			1
Cresylic Acid	D	D	D	A
Cresylic acid	2	4	4	
Cresylic Acid	D-Severe Effect			
Crotonaldehyde	4			1
Crotonaldehyde	1	0	1	
Crotonic Acid	4			1
Crude Oil	4			1
Crude oil	4	4	1	
Cumaldehyde	4			1
Cumene	4			1
Cumene	D	D	D	A
Cumene Hydroperoxide	X			X
Cupric Acid	A-Excellent			
Cupric Sulfate	2			1
Cutting Oil	4			1
Cyanamide	X			X
Cyanides	X			X
Cyanogen Chloride	X			X
Cyanogen Gas	X			X
Cyanohydrin	X			X
Cyanuric Chloride	X			X
Cyclohexane	4			1
Cyclohexane	D	D	A	A
Cyclohexane	4	4	1	
Cyclohexane	D-Severe Effect			
Cyclohexanol	4			1
Cyclohexanol	C	D	C	A
Cyclohexanol	4	4	3	
Cyclohexanone	2			4
Cyclohexanone	B	D	D	D

Chemical Substance	EPDM	SBR	NBR	FKM
Cyclohexanone	1	4	4	
Cyclohexanone	B-Good			
Cyclohexene	4			1
Cyclohexylamine	4			1
Cyclohexylamine Carbonate	X			X
Cyclohexylamine Laurate	4			1
Cyclopentadiene	4			1
Cyclopentane	4			1
Cyclopolyolefins	4			1
Cymene or p-Cymene	4			1
DDT (Dichlorodiphenyltrichloroethane)	4			1
Decalin	4			1
Decalin	D	D	D	A
Decane	4			1
Decane	D	D	A	A
Decane	0	4	2	
Delco Brake Fluid	1			4
Denatured Alcohol	1			1
Denatured Alcohol	A	A	A	A
Detergent Solutions	A	B	A	A
Detergent, Water Solution	1			1
Detergents	A-Excellent			
Developing Fluids	B	B	A	A
Developing Fluids (Photo)	2			1
Dexron	4			1
Dextrin	4			1
Dextro Lactic Acid	1			3
Dextron	4			1
Dextrose	1			3
DI Water	1			2
Diacetone	1			4
Diacetone	A	D	D	D
Diacetone Alcohol	1			4
Diacetone Alcohol	A	D	D	D
Diacetone alcohol	1	2	4	
Diacetone Alcohol	A-Excellent			
Dialkyl Sulfates	1			3
Diallyl Ether	X			X
Diallyl Phthalate	X			X
Diamylamine	4			1
Diazinon	4			2
Dibenzyl (sym-Diphenylethane)	4			1
Dibenzyl Ether	B	D	D	D
Dibenzyl Ether Factory	2			4
Dibenzyl Sebacate	2			2
Dibenzyl sebacate	2	0	0	
Dibenzyl Sebecate	B	D	D	B
Diborane	X			X
Dibromoethane	4			1
Dibromoethyl Benzene	4			1
Dibromoethylbenzene	D	D	D	B
Dibutyl Amine	C	D	D	D
Dibutyl Cellosolve Adipate	1			3
Dibutyl Ether	C	D	D	C
Dibutyl Ether Factory	3			3
Dibutyl Methylenedithio Glycolate	4			1
Dibutyl phtalate	1	4	4	
Dibutyl Phthalate	2			3
Dibutyl Phthalate	B	D	D	C
Dibutyl Sebacate	2			2
Dibutyl sebacate	1	4	4	

Chemical Substance	EPDM	SBR	NBR	FKM
Dibutyl Sebecate	B	D	D	B
Dibutyl Thioglycolate	4			1
Dibutyl Thiourea	4			1
Dibutylamine	1			4
Dichloroacetic Acid	4			1
Dichloroaniline	1			3
Dichlorobenzene	4	4	4	
Dichlorobenzene	D-Severe Effect			
Dichlorobenzene or o-Dichlorobenzene	4			1
Dichlorobenzene or p-Dichlorobenzene	4			1
Dichlorobutane	4			1
Dichlorobutene	4			1
Dichlorodiphenyl-Dichloroethane (DDD)	4			1
Dichloroethane	4			1
Dichloroethylene	4			1
Dichloroethylene	0	4	4	
Dichlorohydrin	1			3
Dichloroisopropyl Ether	3			3
Dichloro-Isopropyl Ether	C	D	D	C
Dichloromethane	4			1
Dichlorophenol	4			1
Dichlorophenoxyacetic Acid	4			1
Dichloropropane	4			1
Dichloropropene	4			1
Dichlorosilane	X			X
Dicyclohexylamine	4			4
Dicyclohexylamine	D	D	C	D
Dicyclohexylamine	4	4	2	
Dicyclohexylammonium Nitrate	1			3
Dieldrin	4			1
Diesel Fuel	D-Severe Effect			
Diesel Oil	4			1
Diesel Oil	D	D	A	A
Di-ester Lubricant MIL-L-7808	4			1
Diester oil (liquid 101)	4	4	1	
Di-ester Synthetic Lubricants	4			1
Diethanolamine (DEA)	1			3
Diethyl Benzene	X			1
Diethyl Benzene	D	D	D	A
Diethyl Carbonate	1			3
Diethyl Ether	4			4
Diethyl Ether	D	D	D	D
Diethyl Ether	D-Severe Effect			
Diethyl Phthalate	4			1
Diethyl Sebacate	2			2
Diethyl sebacate	2	0	4	
Diethyl Sebecate	B	D	B	B
Diethyl Sulfate	1			3
Diethylamine	1			4
Diethylamine	B	B	B	D
Diethylamine	4	4	2	
Diethylamine	B-Good			
Diethylaniline	1			3
Diethylbenzene	4	4	4	
Diethylene Glycol	1			1
Diethylene Glycol	A	A	A	A
Diethylene glycol	1	1	1	
Diethylene Glycol	A-Excellent			
Diethylenetriamine	X			X
Difluorodibromomethane	2			X
Difluoroethane	4			1

Chemical Substance	EPDM	SBR	NBR	FKM
Difluoromonochloroethane	4			1
Diglycol Chloroformate	1			3
Diglycolic Acid	1			3
Dihydroxydiphenylsulfone	1			3
Diisobutyl Ketone	1			X
Diisobutyl ketone	2	0	4	
Diisobutylcarbinol	4			1
Diisobutylene	4			1
Diisobutylene	D	D	B	A
Diisobutylene	0	0	2	
Diisooctyl Sebacate	3			2
Diisopropyl Benzene	D	D	D	A
Diisopropyl benzene	4	4	4	
Diisopropyl Ether (DIPE)	X			X
Diisopropyl Ketone	1			4
Diisopropyl Ketone	A	D	D	D
Diisopropylbenzene	4			1
Diisopropylidene Acetone	4			1
Diisopropylidene Acetone (Phorone)	C	D	D	D
Dimethyl Acetamide	1			3
Dimethyl aniline	2	4	4	
Dimethyl Aniline	B-Good			
Dimethyl Aniline (Xylidine)	B	C	C	D
Dimethyl Ether	2			2
Dimethyl Ether (Methyl Ether)	D	D	A	D
Dimethyl Formaldehyde	1			3
Dimethyl Formamide	B	D	B	D
Dimethyl formamide	2	2	2	
Dimethyl Formamide	B-Good			
Dimethyl Formamide (DMF)	1			4
Dimethyl Phenyl Carbinol	4			1
Dimethyl Phenyl Methanol	4			1
Dimethyl Phthalate	2			2
Dimethyl Phthalate	B	D	D	B
Dimethyl phthalate	2	4	4	
Dimethyl Sulfoxide (DMSO)	1			3
Dimethyl Terephthalate (DMT)	4			1
Dimethylamine	3	0	4	
Dimethylamine (DMA)	1			4
Dimethylaniline (Xylidine)	4			1
Dimethyldisulfide (DMDS)	4			1
Dimethylhydrazine	1			3
Dinitrochlorobenzene	4			1
Dinitrogen Tetroxide	X			X
Dinitrotoluene	D	D	D	D
Dinitrotoluene	4	4	4	
Dinitrotoluene (DNT)	4			4
Dioctyl Phtalate	B	D	C	B
Dioctyl Phthalate	2			2
Dioctyl phthalate	2	4	3	
Dioctyl Sebacate	2			2
Dioctyl sebacate	2	4	3	
Dioctyl Sebecate	B	D	D	B
Dioctylamine	4			1
Dioxalane	2	4	4	
Dioxane	2			4
Dioxane	B	D	D	D
Dioxane	0	4	4	
Dioxolane	2			4
Dioxolane	B	D	D	D
Dipentene	4			1

Chemical Substance	EPDM	SBR	NBR	FKM
Dipentene	D	D	B	A
Dipentene	4	4	2	
Diphenyl	4			1
Diphenyl	4	4	4	
Diphenyl	D-Severe Effect			
Diphenyl (Biphenyl) (Phenylbenzene)	D	D	D	A
Diphenyl ether	1	4	4	
Diphenyl Oxide	D-Severe Effect			
Diphenyl Oxides	4			1
Diphenyl Oxides	D	D	D	A
Diphenylamine (DPA)	4			1
Diphenylene Oxide	X			X
Diphenylpropane	4			1
Disilane	X			X
Di-Tert-Butyl Peroxide	X			X
Dodecylbenzene	4			1
Dow Chemical 50-4	1			4
Dow Chemical ET378	X			X
Dow Chemical ET588	1			4
Dow Corning -11	1			1
Dow Corning -1208, 4050, 6620, F-60, XF-60	1			1
Dow Corning -1265 Fluorosilicone Fluid	1			1
Dow Corning -200	1			1
Dow Corning -220	1			1
Dow Corning -3	1			1
Dow Corning -33	1			1
Dow Corning -4	1			1
Dow Corning -44	1			1
Dow Corning -5	1			1
Dow Corning -510	1			1
Dow Corning -55	1			1
Dow Corning -550	1			1
Dow Corning -704	1			1
Dow Corning -705	1			1
Dow Corning -710	1			1
Dow Corning F-61	1			1
Dow Guard	1			1
Dowanol P Mix	X			X
Dowtherm Oil	D	D	D	A
Dowtherm, 209	1			4
Dowtherm, A	4			1
Dowtherm, E	4			1
Drinking Water	1			1
Dry Cleaning Fluids	4			1
Dry Cleaning Fluids	D	D	C	A
DTE 20 Series, Mobil	4			1
DTE named series, Mobil, light-heavy	4			1
Elco 28-EP lubricant	4			1
Epichlorohydrin	2			4
Epichlorohydrin	B	D	D	D
Epichlorohydrin	2	4	4	
Epoxy Resins	1			4
Epsom Salts (Magnesium Sulfate)	A-Excellent			
Erucic Acid	X			X
Esam-6 Fluid	1			4
Esso Fuel 208	4			1
Esso Golden Gasoline	4			1
Esso Motor Oil	4			1
Esso Transmission Fluid (Type A)	4			1
Esso WS2812 (MIL-L-7808A)	4			1
Esso XP90-EP Lubricant	4			1

Chemical Substance	EPDM	SBR	NBR	FKM
Esstic 42, 43	4			1
Ethane	4			1
Ethane	D	D	A	A
Ethane	4	4	1	
Ethane	D-Severe Effect			
Ethanol	1			3
Ethanol	1	1	1	
Ethanol	A-Excellent			
Ethanol Amine	1			4
Ethanolamine	B	B	B	D
Ethanolamine	B-Good			
Ethanolamine (mono) 23ºC	1	2	4	
Ethanolamine (mono) 70ºC	1	1	1	
Ether 23ºC	3	4	2	
Ether 10ºC	3	4	3	
Ether	C-Fair			
Ethers	3			3
Ethoxyethyl Acetate (EGMEEA)	1			3
Ethyl Acetate	B	D	D	D
Ethyl acetate	1	3	4	
Ethyl Acetate	B-Good			
Ethyl Acetate-Organic Ester	2			4
Ethyl Acetoacetate	2			4
Ethyl Acetoacetate	B	C	D	D
Ethyl acetoacetate	2	3	4	
Ethyl Acrylate	2			4
Ethyl Acrylate	B	D	D	D
Ethyl acrylate	2	0	4	
Ethyl Alcohol	1			3
Ethyl Alcohol	A	A	A	B
Ethyl Ammonium Dichloride	X			X
Ethyl Benzene	4			1
Ethyl Benzene	D	D	D	A
Ethyl benzene	4	4	4	
Ethyl Benzoate	4			1
Ethyl Benzoate	A	A	D	A
Ethyl benzoate	2	0	0	
Ethyl Bromide	4			1
Ethyl Cellosolve	2			4
Ethyl Cellosolve	D	D	D	D
Ethyl Cellulose	2			4
Ethyl Cellulose	B	B	B	D
Ethyl cellulose	0	1	1	
Ethyl Chloride	3			1
Ethyl Chloride	C	D	A	A
Ethyl chloride	1	2	2	
Ethyl Chloride	A-Excellent			
Ethyl Chlorocarbonate	2			1
Ethyl Chlorocarbonate	B	D	D	A
Ethyl Chloroformate	2			4
Ethyl Chloroformate	B	D	D	D
Ethyl chloroformate	0	4	4	
Ethyl Ether	3			4
Ethyl Ether	C	D	C	D
Ethyl Ether	D-Severe Effect			
Ethyl Formate	2			1
Ethyl Formate	B	D	D	A
Ethyl formate	2	4	4	
Ethyl Hexanol	1			1
Ethyl Lactate	1			3
Ethyl Mercaptan	X			2

Chemical Substance	EPDM	SBR	NBR	FKM
Ethyl Mercaptan	C	D	D	B
Ethyl mercaptan	4	4	4	
Ethyl Nitrite	1			3
Ethyl Oxalate	1			2
Ethyl Oxalate	A	A	D	A
Ethyl oxalate	1	1	4	
Ethyl Pentachlorobenzene	4			1
Ethyl Pentachlorobenzene	D	D	D	A
Ethyl pentachlorobenzene	4	4	3	
Ethyl Pyridine	4			1
Ethyl Silicate	1			1
Ethyl Silicate	A	B	A	A
Ethyl silicate	1	2	1	
Ethyl Stearate	4			1
Ethyl Sulfate	1			4
Ethyl Tertiary Butyl Ether	X			X
Ethyl Valerate	4			1
Ethylacrylic Acid	2			X
Ethylamine	1			3
Ethylcyclopentane	4			1
Ethylene	4			2
Ethylene	B	C	A	A
Ethylene	0	0	1	
Ethylene Bromide	C-Fair			
Ethylene Chloride	4			2
Ethylene Chloride	C	D	D	B
Ethylene Chloride	D-Severe Effect			
Ethylene Chlorohydrin	2			1
Ethylene Chlorohydrin	B	B	D	A
Ethylene chlorohydrin	0	3	4	
Ethylene Chlorohydrin	B-Good			
Ethylene Cyanohydrin	4			1
Ethylene Diamine	1			4
Ethylene Diamine	A	B	A	D
Ethylene diamine	1	2	2	
Ethylene Diamine	A-Excellent			
Ethylene Dibromide	3			1
Ethylene Dichloride	3			1
Ethylene Dichloride	C	D	D	A
Ethylene dichloride	2	4	4	
Ethylene Dichloride	C-Fair			
Ethylene Glycol	1			1
Ethylene Glycol	A	A	A	A
Ethylene glycol	1	1	1	
Ethylene Glycol	A-Excellent			
Ethylene Hydrochloride	3			1
Ethylene Oxide	3			4
Ethylene Oxide	C	D	D	D
Ethylene oxide	3	0	4	
Ethylene Oxide	C-Fair			
Ethylene Oxide, (12%) and Freon 12 (80%	2			4
Ethylene Trichloride	3			1
Ethylene Trichloride	C	D	D	A
Ethyleneimine	X			X
Ethylmorpholene Stannous Octotate (50/50 mixture)	2			4
Ethylmorpholine	4			1
Ethylsulfuric Acid	1			3
F-60 Fluid (Dow Corning)	1			1
F-61 Fluid (Dow Corning)	1			1
Fatty Acids	3			1

Chemical Substance	EPDM	SBR	NBR	FKM
Fatty Acids	C	D	B	A
Fatty Acids	D-Severe Effect			
FC-43 Heptacosofluorotri-butylamine	1			1
FC75 & FC77 (Fluorocarbon)	1			2
Ferric Acetate	1			3
Ferric Ammonium Sulfate	1			3
Ferric Chloride	1			1
Ferric Chloride	A-Excellent			
Ferric Chloride (Aqueous)	A	A	A	A
Ferric Ferrocyanide	1			3
Ferric Hydroxide	1			3
Ferric Nitrate	1			1
Ferric Nitrate	A-Excellent			
Ferric Nitrate (Aqueous)	A	A	A	A
Ferric Persulfate	1			1
Ferric Sulfate	1			1
Ferric Sulfate	A-Excellent			
Ferric Sulfate (Aqueous)	A	A	A	A
Ferrous Ammonium Citrate	1			3
Ferrous Ammonium Sulfate	1			3
Ferrous Carbonate	1			3
Ferrous Chloride	X			X
Ferrous Iodide	1			3
Ferrous Sulfate	1			3
Ferrous Sulfate	A-Excellent			
Ferrous Tartrate	1			3
Fish Oil	4			1
Fish Oil	D	D	A	A
Fisher Reagent	2			X
Fluoboric Acid	A-Excellent			
Fluorinated Cyclic Ethers	1			X
Fluorinated Cyclic Ethers	A	D	*	*
Fluorine	A-Excellent			
Fluorine (Gas)	X			X
Fluorine (Liquid)	4			2
Fluorine (Liquid)	D	D	D	B
Fluorine, liquid	3	0	0	
Fluorobenzene	4			1
Fluorobenzene	D	D	D	A
Fluorobenzene	4	4	4	
Fluoroboric Acid	1			X
Fluoroboric Acid	A	A	A	*
Fluorocarbon Oils	1			X
Fluorocarbon Oils	A	B		*
Fluoroform (Trifluoromethane)	X			X
Fluorolube	1			2
Fluorolube	A	C	A	B
Fluorophosphoric Acid	X			X
Fluorosilicic Acid	2			2
Fluorosilicic Acid (Hydrofluosilicic Acid)	B	C	A	A
Fluorosulfonic Acid	X			X
Fluosilicic acid 50%	2	0	3	
Fluosilicic Acid	A-Excellent			
Formaldehyde 40%	0	1	1	
Formaldehyde 40%	0	0	4	
Formaldehyde	2			4
Formaldehyde (RT)	A	B	C	D
Formaldehyde 100%	A-Excellent			
Formaldehyde 40%	A-Excellent			
Formamide	1			3
Formamide	1	0	1	

Chemical Substance	EPDM	SBR	NBR	FKM
Formic Acid	1			4
Formic Acid	A	A	B	C
Formic acid 23ºC	2	2	3	
Formic acid 70ºC	2	2	3	
Formic Acid	A-Excellent			
Freon 11	D	D	B	A
Freon 11	4	2	1	
Freon 112	D	C	B	A
Freon 112	4	4	2	
Freon 113	C	B	A	B
Freon 113	3	2	1	
Freon 113	D-Severe Effect			
Freon 114	A	A	A	B
Freon 114	1	0	1	
Freon 114 B2	4	3	2	
Freon 114B2	D	C	B	B
Freon 115	A	A	A	B
Freon 115	1	1	1	
Freon 12	B	A	A	B
Freon 12	2	1	1	
Freon 12	B-Good			
Freon 13	A	A	A	A
Freon 13 B1	1	1	1	
Freon 13B1	A	A	A	A
Freon 142 b	1	1	1	
Freon 142b	B	B	A	D
Freon 152	1	1	1	
Freon 152b	A	A	A	D
Freon 21	D	D	D	D
Freon 21	3	4	4	
Freon 218	A	A	A	A
Freon 218	1	1	1	
Freon 22	A	A	D	D
Freon 22	1	1	3	
Freon 22	A-Excellent			
Freon 31	A	B	D	D
Freon 31	1	2	4	
Freon 32	A	A	A	D
Freon 32	1	1	1	
Freon 502	A	A	B	B
Freon 502	0	1	2	
Freon BF	D	D	B	A
Freon BF	0	4	2	
Freon C 316	1	1	1	
Freon C316	A	A	A	B
Freon C318	A	A	A	B
Freon MF	D	D	A	B
Freon MF	0	2	1	
Freon TA	B	C	A	D
Freon TA	1	1	1	
Freon TC	B	C	A	A
Freon TC	2	2	1	
Freon TF	D	C	A	B
Freon TF	4	2	4	
Freon TF	D-Severe Effect			
Freon TMC	C	D	B	A
Freon TMC	2	3	2	
Freon T-P 35	1	1	1	
Freon T-P35	A	A	A	A
Freon T-WD 602	2	2	2	
Freon T-WD602	B	C	B	A

Chemical Substance	EPDM	SBR	NBR	FKM
Freon, 11	4			2
Freon, 112 (Tetrachlorodifluoroethane)	4			1
Freon, 113	4			2
Freon, 113 + High and Low Aniline Oil	X			X
Freon, 114	1			1
Freon, 114B2	4			2
Freon, 115, 116	1			2
Freon, 12	3			3
Freon, 12 and ASTM Oil #2 (50/50 Mixture)	4			1
Freon, 12 and Suniso 4G (50/50 Mixture)	4			1
Freon, 123 (Dichlorotrifluoroethane)	X			X
Freon, 124 (Chlorotetrafluoroethane)	X			X
Freon, 125 (Pentafluoroethane)	X			X
Freon, 13	1			1
Freon, 134a (Tetrafluoroethane)	X			X
Freon, 13B1	1			1
Freon, 14	1			1
Freon, 141b (Dichlorofluoroethane)	X			X
Freon, 142b	4			2
Freon, 152a (Difluoroethane)	X			X
Freon, 21	4			4
Freon, 218	1			1
Freon, 22 (Chlorodifluoroethane)	3			4
Freon, 22 and ASTM Oil #2 (50/50 Mixture)	4			2
Freon, 23 (Fluoroform)	X			X
Freon, 31	1			4
Freon, 32	1			4
Freon, 502	1			2
Freon, BF (R112)	4			1
Freon, C316	1			1
Freon, C318	1			2
Freon, K-142b	1			4
Freon, K-152a	1			4
Freon, MF (R11)	4			2
Freon, PCA (R113)	4			2
Freon, TA	2			3
Freon, TC	2			1
Freon, TF (R113)	4			2
Freon, TMC	3			1
Freon, T-P35	1			1
Freon, T-WD602	2			1
Freon® 11	D-Severe Effect			
Fuel B in accordance with ISO 1817 (70% isooctane 30% toluene)	4	4	2	
Fuel C in accordance with ISO 1817 (50% isooctane 50% toluene)	4	4	2	
Fuel Oil	D	D	A	A
Fuel Oil, #6	4			1
Fuel Oil, 1, and 2	4			1
Fuel Oil, Acidic	4			1
Fuel Oils	D-Severe Effect			
Fumaric Acid	2			1
Fumaric Acid	D	C	A	A
Fumaric acid	0	1	1	
Fuming Sulphuric Acid (20/25% Oleum)	4			1
Furaldehyde	2			4
Furan (Furfuran)	3			1
Furan (furfuran)	3	4	4	
Furan Resin	C-Fair			
Furan, Furfuran	C	D	D	D
Furfural	B	D	D	D

Chemical Substance	EPDM	SBR	NBR	FKM
Furfural	2	3	4	
Furfural	D-Severe Effect			
Furfural (Furfuraldehyde)	2			4
Furfural alcohol	3	0	4	
Furfuraldehyde	2			4
Furfuryl Alcohol	2			X
Furoic Acid	X			X
Furyl Carbinol	2			X
Fyquel (Cellulube)	A	D	D	A
Fyrquel 150 220 300 550	1			1
Fyrquel 90, 100, 500	1			1
Fyrquel A60	2			4
Gallic Acid	2			1
Gallic Acid	B	B	B	A
Gallic acid	2	2	3	
Gallic Acid	B-Good			
Gas oil	4	4	2	
Gasoline	4			1
Gasoline	D	D	B	A
Gasoline (high-aromatic)	D-Severe Effect			
Gasoline, leaded, ref.	D-Severe Effect			
Gasoline, unleaded	D-Severe Effect			
Gelatin	1			1
Gelatin	A	A	A	A
Gelatin	A-Excellent			
Gelatine	1	1	1	
Germane (Germanium Tetrahydride)	X			X
Girling Brake Fluid	1			4
Glacial acetic acid 10 %	3	4	4	
Glacial acetic acid 25%	4	4	4	
Glacial acetic acid 50%	4	4	3	
Glauber's Salt	2			1
Glauber's Salt (Aqueous)	B	D	D	A
Gluconic Acid	1			3
Glucose	1			1
Glucose	A	A	A	A
Glucose	1	1	1	
Glucose	A-Excellent			
Glucose solution	1	1	1	
Glue	X			X
Glue	A	B	A	A
Glue, P.V.A.	A-Excellent			
Glutamic Acid	1			3
Glycerin	A	A	A	A
Glycerin	A-Excellent			
Glycerine (Glycerol)	1			1
Glycerol	1	1	1	
Glycerol Dichlorohydrin	1			3
Glycerol Monochlorohydrin	1			3
Glycerol Triacetate	1			3
Glycerophosphoric Acid	1			3
Glyceryl Phosphate	1			3
Glycidol	1			3
Glycine 10%	1	0	1	
Glycol	1	1	1	
Glycol Monoether	X			X
Glycolic Acid	1			3
Glycolic Acid	A-Excellent			
Glycols	1			1
Glycols	A	A	A	A
Glycoxylic Acid	1			3

Chemical Substance	EPDM	SBR	NBR	FKM
Grape Juice	A-Excellent			
Grease	D-Severe Effect			
Grease Petroleum Base	4			1
Green Sulfate Liquor	1			1
Green Sulfate Liquor	A	B	B	A
Gulf Endurance Oils	4			1
Gulf FR Fluids (Emulsion)	4			1
Gulf FR G-Fluids	1			1
Gulf FR P-Fluids	2			2
Gulf Harmony Oils	4			1
Gulf High Temperature Grease	4			1
Gulf Legion Oils	4			1
Gulf Paramount Oils	4			1
Gulf Security Oils	4			1
Gulfcrown Grease	4			1
Halothane	4			1
Halowax Oil	4			1
Halowax Oil	D	D	D	A
Hannifin Lube A	4			1
Heavy Water	1			X
HEF-2 (High Energy Fuel)	4			1
Helium	1			1
Heptachlor	4			1
Heptachlorobutene	4			1
Heptaldehyde (Heptanal)	4			1
Heptane	D-Severe Effect			
Heptane or n-Heptane	4			1
Heptanoic Acid	4			1
Hexachloroacetone	1			3
Hexachlorobutadiene	4			1
Hexachlorobutadiene	4	4	1	
Hexachlorobutene	4			1
Hexachloroethane	4			1
Hexaethyl Tetraphosphate	X			X
Hexafluoroethane (F-116)	X			X
Hexafluoroxylene	X			X
Hexaldehyde	1	4	4	
Hexaldehyde or n-Hexaldehyde	1			4
Hexamethyldisilizane	X			X
Hexamethylene (Cyclohexane)	4			1
Hexamethylene Diammonium Adipate	4			1
Hexamethylenediamine	1			3
Hexamethylenetetramine	1			3
Hexane	D	D	A	A
Hexane	4	4	1	
Hexane	D-Severe Effect			
Hexane or n-Hexane	1			1
Hexanol	3	2	2	
Hexene-1 or n-Hexene-1	4			1
Hexone (Methyl Isobutyl Ketone)	1			3
Hexyl Acetate	4			1
Hexyl Alcohol	3			1
Hexyl Alcohol	C	B	A	A
Hexylene Glycol	1			3
Hexylresorcinol	4			1
High Viscosity Lubricant, H2	1			1
High Viscosity Lubricant, U4	1			1
HiLo MS #1	1			4
Honey	A-Excellent			
Houghto-Safe 1010 phosphate ester	1			1
Houghto-Safe 1055 phosphate ester	1			1

Chemical Substance	EPDM	SBR	NBR	FKM
Houghto-Safe 1120 phosphate ester	2			1
Houghto-Safe 271 (Water & Glycol Base)	1			2
Houghto-Safe 416 & 500 Series	1			X
Houghto-Safe 5040 (Water/Oil emulsion)	4			1
Houghto-Safe 620 Water/Glycol	1			2
Hydraulic Oil (Petro)	D-Severe Effect			
Hydraulic Oil (Petroleum Base, Industrial)	4			1
Hydraulic Oil (Petroleum)	D	D	A	A
Hydraulic Oil (Synthetic)	A-Excellent			
Hydraulic Oils (Synthetic Base)	4			1
Hydrazin solution	1	0	4	
Hydrazine	1			4
Hydrazine	A	A	B	D
Hydrazine	A-Excellent			
Hydrazine (Anhydrous)	2			4
Hydrazine Dihydrochloride	1			3
Hydrazine Hydrate	1			3
Hydriodic Acid	4			1
Hydroabietyl Alcohol	X			X
Hydrobromic acid 37%	1	2	4	
Hydrobromic Acid	1			1
Hydrobromic Acid	A	D	D	A
Hydrobromic Acid 100%	A-Excellent			
Hydrobromic Acid 20%	A-Excellent			
Hydrobromic Acid 40%	1			1
Hydrobromic Acid 40%	A	D	D	A
Hydrocarbons, Saturated	4			1
Hydrochloric acid 10%	4	3	3	
Hydrochloric acid 21%	2	2	2	
Hydrochloric acid 37%	1	2	3	
Hydrochloric Acid (cold) 37%	3			1
Hydrochloric Acid (Cold) 37%	A	B	C	A
Hydrochloric Acid (hot) 37%	3			1
Hydrochloric Acid (Hot) 37%	C	D	D	B
Hydrochloric Acid 100%	D-Severe Effect			
Hydrochloric Acid 20%	A-Excellent			
Hydrochloric Acid 37%	C-Fair			
Hydrochloric Acid, 3 Molar to 158°F	1			1
Hydrochloric Acid, Concentrated Room Temp.	2			1
Hydrochloric Acid, Concentrated to 158°F	4			1
Hydrocyanic acid 20%	1	3	3	
Hydrocyanic Acid	1			1
Hydrocyanic Acid	A	B	B	A
Hydrocyanic Acid	B-Good			
Hydrocyanic Acid (Gas 10%)	A-Excellent			
Hydro-Drive MIH-10 (Petroleum Base)	4			1
Hydro-Drive MIH-50 (Petroleum Base)	4			1
Hydrofluoric acid 48%	1	3	3	
Hydrofluoric acid 75%	0	3	4	
Hydrofluoric Acid (Anhydrous)	X			X
Hydrofluoric Acid (conc.) Cold	X			X
Hydrofluoric Acid (conc.) Hot	4			3
Hydrofluoric Acid 100%	D-Severe Effect			
Hydrofluoric Acid 20%	D-Severe Effect			
Hydrofluoric Acid 50%	D-Severe Effect			
Hydrofluoric Acid 75%	C-Fair			
Hydrofluoric Acid- Anhydrous	C	D	D	D
Hydrofluoric Acid (Conc.) Cold	C	D	D	A
Hydrofluoric Acid (Conc.) Hot	D	D	D	D
Hydrofluorosilicic Acid	1			1

Chemical Substance	EPDM	SBR	NBR	FKM
Hydrofluosilicic acid	2	3	3	
Hydrofluosilicic Acid (Fluosilicic Acid)	B	C	A	A
Hydrofluosilicic Acid 100%	A-Excellent			
Hydrofluosilicic Acid 20%	A-Excellent			
Hydrogen	1	1	1	
Hydrogen Bromide (Anhydrous)	X			X
Hydrogen Chloride (Anhydrous)	X			X
Hydrogen Chloride gas	1			1
Hydrogen Cyanide	X			X
Hydrogen Fluoride	X			X
Hydrogen Fluoride (Anhydrous)	1			4
Hydrogen Gas	A	A	A	A
Hydrogen Gas	A-Excellent			
Hydrogen Gas, Cold	1			1
Hydrogen Gas, Hot	1			1
Hydrogen Iodide (Anhydrous)	X			X
Hydrogen peroxide 30%	1	1	1	
Hydrogen peroxide 90%	3	4	4	
Hydrogen Peroxide	1			1
Hydrogen Peroxide (90%)	B	D	D	B
Hydrogen Peroxide 10%	A-Excellent			
Hydrogen Peroxide 100%	D-Severe Effect			
Hydrogen Peroxide 30%	B-Good			
Hydrogen Peroxide 50%	B-Good			
Hydrogen Peroxide 90%	3			1
Hydrogen Selenide	X			X
Hydrogen sulfide	1	1	4	
Hydrogen Sulfide (aqua)	B-Good			
Hydrogen Sulfide (dry)	B-Good			
Hydrogen Sulfide (Wet) Cold	A	D	D	D
Hydrogen Sulfide (Wet) Hot	A	D	D	D
Hydrogen Sulfide, Dry, Cold	1			4
Hydrogen Sulfide, Dry, Hot	1			4
Hydrogen Sulfide, Wet, Cold	1			4
Hydrogen Sulfide, Wet, Hot	1			4
Hydrolube-Water/Ethylene Glycol	1			1
Hydrooxycitronellal	X			1
Hydroquinol	4			1
Hydroquinone	2			2
Hydroquinone	B	D	C	B
Hydroquinone	0	2	3	
Hydroquinone	D-Severe Effect			
Hydroxyacetic Acid	1			3
Hydroxyacetic Acid 70%	A-Excellent			
Hydyne	1			4
Hyjet	1			4
Hyjet IV and IVA	1			4
Hyjet S4	1			4
Hyjet W	1			4
Hypochlorous Acid	2			1
Hypochlorous Acid	B	D	D	A
Hypochlorous acid	3	2	4	
Indole	X			1
Industron FF44	4			1
Industron FF48	4			1
Industron FF53	4			1
Industron FF80	4			1
Insulin	1			3
Iodic Acid	1			3
Iodine	2			1
Iodine	B-Good			

Chemical Substance	EPDM	SBR	NBR	FKM
Iodine (in alcohol)	A-Excellent			
Iodine Pentafluoride	4			4
Iodine Pentafluoride	D	D	D	D
Iodoform	4			1
Iodoform	D	D	*	C
Iodoform	A-Excellent			
i-Propyl Acetate	B	D	D	D
Isoamyl Acetate	1			3
Isoamyl Butyrate	1			3
Isoamyl Valerate	1			3
Isoboreol	X			1
Isobutane	4			1
Isobutyl Acetate	1			3
Isobutyl Alcohol	1			1
Isobutyl Alcohol	A	B	B	A
Isobutyl alcohol	1	1	2	
Isobutyl Chloride	4			1
Isobutyl Ether	4			4
Isobutyl Methyl Ketone	1			3
Isobutyl n-Butyrate	1			1
Isobutyl Phosphate	1			3
Isobutylene	X			1
Isobutyraldehyde	2			4
Isobutyric Acid	2			4
Isocrotyl Chloride	X			1
Isodecanol	4			1
Isododecane	4			1
Isoeugenol	4			1
Isooctane	4			1
Isooctane	D	D	A	A
Isooctane	D-Severe Effect			
Isooctane (Fuel A, ISO 1817)	4	3	1	
Isopentane	4			1
Isophorone	C	D	D	D
Isophorone	1	0	4	
Isophorone (Ketone)	2			4
Isopropanol	1			1
Isopropyl Acetate	2			4
Isopropyl Acetate	B	D	D	D
Isopropyl acetate	2	4	4	
Isopropyl Acetate	B-Good			
Isopropyl Alcohol	1			1
Isopropyl Alcohol	A	B	B	A
Isopropyl alcohol	1	2	2	
Isopropyl Chloride	4			1
Isopropyl Chloride	D	D	D	A
Isopropyl chloride	4	4	4	
Isopropyl Ether	4			4
Isopropyl Ether	D	D	B	D
Isopropyl ether	2	4	4	
Isopropyl Ether	D-Severe Effect			
Isopropylacetone	1			3
Isopropylamine	1			3
Jet Fuel (JP3, JP4, JP5)	D-Severe Effect			
Jet Fuel A	4			1
JP-10	4			1
JP-3 (MIL-J-5624)	4			1
JP-4 (MIL-T-5624)	4			1
JP-5 (MIL-T-5624)	4			1
JP-6 (MIL-J-25656)	4			1
JP-8 (MIL-T-83133)	4			1

Chemical Substance	EPDM	SBR	NBR	FKM
JP-9 (MIL-F-81912)	4			1
JP-9 -11	4			1
JPX (MIL-F-25604)	4			4
Kel F Liquids	1			2
Kerosene	D	D	A	A
Kerosene	0	4	1	
Kerosene	D-Severe Effect			
Kerosene (Similar to RP-1 and JP-1)	4			1
Ketones	A-Excellent			
Keystone #87HX-Grease	4			1
Lacquer Solvents	4			4
Lacquer Solvents	D	D	D	D
Lacquer Thinners	D-Severe Effect			
Lacquers	4			4
Lacquers	D	D	D	D
Lactams-Amino Acids	2			4
Lactic Acid	A-Excellent			
Lactic Acid (Cold)	A	A	A	A
Lactic Acid (Hot)	D	D	D	A
Lactic acid solution 10%	1	1	1	
Lactic Acid, Cold	1			1
Lactic Acid, Hot	4			1
Lactones (Cyclic Esters)	2			4
Lard	B	D	A	A
Lard	3	4	1	
Lard	D-Severe Effect			
Lard Animal Fat	2			1
Latex	A-Excellent			
Lauric Acid	4			1
Lavendar Oil	D	D	B	A
Lavender Oil	4			1
LB 135	1			1
Lead (Molten)	X			X
Lead Acetate	1			4
Lead Acetate	A-Excellent			
Lead Acetate (Aqueous)	A	D	B	D
Lead Arsenate	1			3
Lead Azide	X			X
Lead Bromide	1			3
Lead Carbonate	1			3
Lead Chloride	1			3
Lead Chromate	1			3
Lead Dioxide	1			3
Lead Linoleate	1			3
Lead Naphthenate	X			X
Lead Nitrate	1			X
Lead Nitrate	A-Excellent			
Lead Nitrate (Aqueous)	A	A	A	A
Lead Oxide	1			3
Lead Sulfamate	1			1
Lead Sulfamate	A-Excellent			
Lead Sulfamate (Aqueous)	A	B	B	A
Lead sulfamate, aq	1	2	2	
Lehigh X1169	4			1
Lehigh X1170	4			1
Light Grease	4			1
Ligroin	D-Severe Effect			
Ligroin (Benzine) (Nitrobenzine)	D	D	A	A
Ligroin (Petroleum Ether or Benzene)	4			1
Lime	D-Severe Effect			
Lime Bleach	1			1

Chemical Substance	EPDM	SBR	NBR	FKM
Lime Bleach	A	B	A	A
Lime Sulfur	X			1
Lime Sulfur	A	D	D	A
Lindol (Hydraulic Fluid)	A	D	D	B
Lindol, Hydraulic Fluid (Phosphate ester type)	1			2
Linoleic Acid	4			2
Linoleic Acid	D	D	B	B
Linoleic acid	4	0	2	
Linoleic Acid	D-Severe Effect			
Linseed Oil	3			1
Linseed Oil	C	D	A	A
Linseed oil	2	3	1	
Liquefied Petroleum Gas	D	D	A	A
Liquid Oxygen (LOX)	4			4
Liquid Petroleum Gas (LPG)	4			1
Liquified petroleum gas	4	4	1	
Liquimoly	4			1
Lithium Bromide (Brine)	1			3
Lithium Carbonate	1			3
Lithium Chloride	1			3
Lithium Chloride	A-Excellent			
Lithium Citrate	1			3
Lithium Hydroxide	1			3
Lithium Hypochlorite	1			3
Lithium Nitrate	1			3
Lithium Nitrite	1			3
Lithium Perchlorate	1			3
Lithium Salicylate	1			3
Lithopone	1			3
Lubricants	D-Severe Effect			
Lubricating Oils (Crude & Refined)	4			1
Lubricating Oils (Petroleum)	D	D	A	A
Lubricating Oils (Synthetic base)	X			1
Lubricating Oils, Di-ester	4			1
Lubricating Oils, petroleum base	4			1
Lubricating Oils, SAE 10, 20, 30, 40, 50	4			1
Lye	A	B	B	B
Lye Solutions	1			2
Lye: Ca(OH)2 Calcium Hydroxide	A-Excellent			
Lye: KOH Potassium Hydroxide	A-Excellent			
Lye: NaOH Sodium Hydroxide	B-Good			
Magnesium Carbonate	A-Excellent			
Magnesium Chloride	1			1
Magnesium Chloride	A-Excellent			
Magnesium Chloride (Aqueous)	A	A	A	A
Magnesium hydroxide 10%	1	1	1	
Magnesium Hydroxide	1			1
Magnesium Hydroxide	A-Excellent			
Magnesium Hydroxide (Aqueous)	A	B	B	A
Magnesium Nitrate	A-Excellent			
Magnesium Salts	1			1
Magnesium Sulfate (Aqueous)	A	B	A	A
Magnesium Sulfate (Epsom Salts)	A-Excellent			
Magnesium Sulfite and Sulfate	1			1
Magnesium Trisilicate	X			X
Malathion	4			1
Maleic Acid	4			1
Maleic Acid	B	C	D	A
Maleic acid	3	2	2	
Maleic Acid	D-Severe Effect			

Chemical Substance	EPDM	SBR	NBR	FKM
Maleic Anhydride	2			4
Maleic anhydride	3	2	2	
Maleic Anhydride	D-Severe Effect			
Maleic Hydrazide	1			3
Malic Acid	2			1
Malic Acid	B	C	D	D
Malic acid	4	2	1	
Malic Acid	D-Severe Effect			
Mandelic Acid	1			3
Manganese Acetate	1			3
Manganese Carbonate	1			3
Manganese Chloride	1			3
Manganese Dioxide	1			3
Manganese Gluconate	1			3
Manganese Hypophosphite	1			3
Manganese Linoleate	1			3
Manganese Naphthenate	X			X
Manganese Phosphate	1			3
Manganese Sulfate	1			3
Manganese Sulfate	A-Excellent			
Manganous Chloride	1			3
Manganous Phosphate	1			3
Manganous Sulfate	1			3
Mannitol	1			3
Mash	A-Excellent			
MCS 312	4			1
MCS 352	1			4
MCS 463	1			4
MDI (Methylene di-p-phenylene isocyanate)	1			3
Melamine	A-Excellent			
Mercaptan	4			1
Mercaptobenzothiazole (MBT)	X			1
Mercuric Acetate	1			3
Mercuric Chloride	1			1
Mercuric Chloride (dilute)	A-Excellent			
Mercuric Cyanide	1			3
Mercuric Cyanide	A-Excellent			
Mercuric Iodide	1			3
Mercuric Nitrate	1			3
Mercuric Sulfate	1			3
Mercuric Sulfite	1			3
Mercurous Nitrate	1			3
Mercurous Nitrate	A-Excellent			
Mercury	1			1
Mercury	A	A	A	A
Mercury	1	1	1	
Mercury	A-Excellent			
Mercury Chloride	1			3
Mercury Chloride (Aqueous)	A	A	A	A
Mercury Fulminate	1			3
Mercury Salts	1			3
Mercury Vapors	1			1
Mesityl Oxide	B	D	D	D
Mesityl Oxide (Ketone)	2			4
Meta-Cresol	X			1
Metaldehyde	1			3
Meta-Nitroaniline	1			3
Meta-Toluidine	X			1
Methacrylic Acid	1			3
Methallyl Chloride	X			1
Methane	4			1

Chemical Substance	EPDM	SBR	NBR	FKM
Methane	D	D	A	A
Methane	4	4	1	
Methane	D-Severe Effect			
Methanol	1			4
Methanol	1	1	1	
Methanol (Methyl Alcohol)	A-Excellent			
Methoxychlor	X			X
Methoxyethanol (DGMMA)	1			3
Methyl Abietate	X			1
Methyl Acetate	2			4
Methyl Acetate	A	C	D	D
Methyl acetate	2	4	4	
Methyl Acetate	B-Good			
Methyl Acetoacetate	2			4
Methyl Acetone	A-Excellent			
Methyl Acetophenone*	X			1
Methyl Acrylate	2			4
Methyl Acrylate	B	D	D	D
Methyl acrylate	2	4	4	
Methyl Acrylate	B-Good			
Methyl Alcohol	1			4
Methyl Alcohol	A	A	A	D
Methyl Alcohol 10%	A-Excellent			
Methyl Amylketone	1			3
Methyl Anthranilate	X			1
Methyl Benzoate	4			1
Methyl Bromide	4			1
Methyl Bromide	D	D	B	A
Methyl Bromide	D-Severe Effect			
Methyl Butyl Ketone	1			4
Methyl butyl ketone	2	4	4	
Methyl Butyl Ketone	A-Excellent			
Methyl Butyl Ketone (Propyl Acetone)	A	D	D	D
Methyl Butyrate Cellosolve	1			3
Methyl Butyrate Chloride	1			3
Methyl Carbonate	4			1
Methyl Cellosolve	2			4
Methyl Cellosolve	B	D	C	D
Methyl Cellosolve	B-Good			
Methyl Cellulose	2			4
Methyl Chloride	3			1
Methyl Chloride	C	D	D	B
Methyl chloride	3	4	4	
Methyl Chloride	D-Severe Effect			
Methyl Chloroacetate	1			3
Methyl Chloroform	4			1
Methyl Chloroformate	4			1
Methyl Chlorosilanes	X			X
Methyl Cyanide (Acetonitrile)	1			3
Methyl Cyclohexanone	4			1
Methyl Cyclopentane	D	D	D	A
Methyl Dichloride	X			1
Methyl Dichloride	D-Severe Effect			
Methyl Ether	4			1
Methyl Ether (Dimethyl Ether)	D	D	A	D
Methyl Ethyl Ketone	A	D	D	D
Methyl Ethyl Ketone	A-Excellent			
Methyl Ethyl Ketone (MEK)	1			4
Methyl ethyl ketone (MEK)	1	3	4	
Methyl Ethyl Ketone Peroxide	4			4
Methyl Ethyl Ketone Peroxide	D-Severe Effect			

Chemical Substance	EPDM	SBR	NBR	FKM
Methyl Ethyl Oleate	X			1
Methyl Formate	2			X
Methyl Formate	B	D	D	D
Methyl formate	2	3	4	
Methyl glycol acetate	2	2	4	
Methyl Hexyl Ketone (2-Octanone)	1			3
Methyl Iodide	4			1
Methyl Isobutyl Ketone	B	D	D	D
Methyl isobutyl ketone	2	4	4	
Methyl Isobutyl Ketone	B-Good			
Methyl Isobutyl Ketone (MIBK)	3			4
Methyl Isocyanate	1			3
Methyl Isopropyl Ketone	2			4
Methyl Isopropyl Ketone	C-Fair			
Methyl Isovalerate	X			1
Methyl Lactate	1			3
Methyl Mercaptan	1			X
Methyl Methacrylate	4			4
Methyl Methacrylate	C	D	D	D
Methyl methacrylate	3	4	4	
Methyl Methacrylate	D-Severe Effect			
Methyl Oleate	2			1
Methyl Oleate	B	D	D	B
Methyl oleate	2	4	4	
Methyl Pentadiene	X			1
Methyl Phenylacetate	X			1
Methyl Salicylate	2			X
Methyl Salicylate	B	C	D	B
Methyl salicylate	2	0	4	
Methyl Tertiary Butyl Ether (MTBE)	3			3
Methyl Valerate	X			1
Methyl-2-Pyrrolidone or n-Methyl-2-Pyrrolidone	2			X
Methylacrylic Acid	2			3
Methylacrylic Acid	B	D	D	D
Methylacrylic acid	2	4	0	
Methylal	X			X
Methylamine	1	0	4	
Methylamine	1			3
Methylamine	A-Excellent			
Methylamyl Acetate	1			3
Methylcyclopentane	4			1
Methylene Bromide	X			1
Methylene Chloride	4			2
Methylene Chloride	C	D	D	B
Methylene Chloride	C-Fair			
Methylene dichloride	3	4	4	
Methylene Iodide	X			1
Methylglycerol	1			3
Methylisobutyl Carbinol	4			1
Methylpyrrolidine	X			1
Methylpyrrolidone	X			1
Methylsulfuric Acid	1			3
MIL-A-6091	1			1
MIL-C-4339	4			1
MIL-C-7024	4			1
MIL-C-8188	4			2
MIL-E-9500	1			1
MIL-F-16884	4			1
MIL-F-17111	4			1
MIL-F-25558 (RJ-1)	4			1

Chemical Substance	EPDM	SBR	NBR	FKM
MIL-F-25656	4			1
MIL-F-5566	1			1
MIL-F-81912 (JP-9)	4			1
MIL-F-82522 (RJ-4)	4			1
MIL-G-10924	4			1
MIL-G-15793	4			1
MIL-G-21568	1			1
MIL-G-25013	1			1
MIL-G-25537	4			1
MIL-G-25760	4			1
MIL-G-3278	4			1
MIL-G-3545	4			1
MIL-G-4343	3			1
MIL-G-5572	4			1
MIL-G-7118	4			1
MIL-G-7187	4			1
MIL-G-7421	4			1
MIL-G-7711	4			1
MIL-H-13910	1			1
MIL-H-19457	2			1
MIL-H-22251	1			X
MIL-H-27601	4			1
MIL-H-46170 -15°F to +400°F	4			1
MIL-H-46170 -20°F to +275°F	4			1
MIL-H-46170 -55°F to +275°F	4			1
MIL-H-46170 -65°F to +275°F	4			1
MIL-H-5606 -65°F to +235°F	4			1
MIL-H-5606 -65°F to +275°F	4			1
MIL-H-6083	4			1
MIL-H-7083	1			2
MIL-H-8446 (MLO-8515)	4			1
MIL-J-5161	4			1
Milk	1			1
Milk	A	A	A	A
Milk	1	1	1	
Milk	A-Excellent			
MIL-L-15016	4			1
MIL-L-15017	4			1
MIL-L-17331	4			1
MIL-L-2104	4			1
MIL-L-21260	4			1
MIL-L-23699	4			1
MIL-L-25681	1			1
MIL-L-3150	4			1
MIL-L-6081	4			1
MIL-L-6082	4			1
MIL-L-6085	4			1
MIL-L-6387	4			1
MIL-L-7808	4			1
MIL-L-7870	4			1
MIL-L-9000	4			1
MIL-L-9236	4			1
MIL-O-3503	4			1
MIL-P-27402	1			X
MIL-R-25576 (RP-1)	4			1
MIL-S-3136, Type I Fuel	4			1
MIL-S-3136, Type II Fuel	4			1
MIL-S-3136, Type III Fuel	4			1
MIL-S-3136, Type IV Oil High Swell	4			1
MIL-S-3136, Type IV Oil Low Swell	4			1
MIL-S-3136, Type V Oil Medium Swell	4			1

Chemical Substance	EPDM	SBR	NBR	FKM
MIL-S-81087	1			1
MIL-T-5624, JP-4, JP-5	4			1
MIL-T-83133	4			1
Mineral Oil	C	D	A	A
Mineral Oils	3			1
Mineral Spirits	D-Severe Effect			
Mixed Acids	1			3
MLO-7277 Hydr.	4			1
MLO-7557	4			1
MLO-8200 Hydr.	4			1
MLO-8515	4			1
Mobil 24dte	4			1
Mobil 254 Lubricant	X			X
Mobil Delvac 1100, 1110, 1120, 1130	4			1
Mobil HF	4			1
Mobil Nivac 20, 30	1			1
Mobil SHC 500 Series	4			1
Mobil SHC 600 Series	4			1
Mobil Therm 600	4			1
Mobil Velocite c	4			1
Mobilgas WA200 ATF	4			1
Mobilgear 600 Series	3			1
Mobilgear SHC ISO Series	3			1
Mobilgrease HP	4			1
Mobilgrease HTS	4			1
Mobilgrease SM	4			1
Mobilith AW Series	4			1
Mobilith SHC Series	4			1
Mobiljet II Lubricant	X			X
Mobilmistlube Series	3			1
Mobiloil SAE 20	4			1
Mobilux	4			1
Molasses	A-Excellent			
Molybdenum Disulfide Grease	4			1
Molybdenum Oxide	1			3
Molybdenum Trioxide	1			3
Molybdic Acid	1			3
Monobromobenzene	4			1
Monobromotoluene	X			1
Monobutyl Paracresol	X			X
Monochloroacetic Acid	1			3
Monochloroacetic acid	C-Fair			
Monochlorobenzene	4			1
Monochlorobenzene	D	D	D	A
Monochlorobutene	X			1
Monochlorohydrin	X			X
Monoethanol Amine	A	B	D	D
Monoethanolamine	B-Good			
Monoethanolamine (MEA)	2			4
Monoethyl Amine	1			3
Monoisopropylamine	1			3
Monomethyl Aniline	1			2
Monomethyl Aniline	B	D	D	B
Monomethyl Ether (Dimethyl Ether)	X			X
Monomethyl Ether (Methyl Ether)	4			1
Monomethyl Ether (Methyl Ether)	D	D	A	D
Monomethyl Hydrazine	1			X
Monomethylamine (MMA)	1			3
Monomethylaniline	2			2
Mononitrotoluene	1			3

Chemical Substance	EPDM	SBR	NBR	FKM
Mononitrotoluene & Dinitrotoluene (40/60 Mixture)	1			3
Monovinyl Acetylene	1			1
Monovinyl Acetylene	B	B	A	A
Monovinylacetylene	1	2	0	
Mopar Brake Fluid	1			4
Morpholine	X			1
Morpholine	2	0	4	
Morpholine	D-Severe Effect			
Motor oil	D-Severe Effect			
Motor Oils	4			1
Mustard	A-Excellent			
Mustard Gas	X			X
Mustard Gas	A	B	*	A
Mustard gas	3	0	0	
Myristic Acid	X			1
Naphta (white spirit)	4	4	1	
Naphtha	D	D	B	A
Naphtha	D-Severe Effect			
Naphthalene	4			1
Naphthalene	D	D	D	A
Naphthalene	D-Severe Effect			
Naphthalene Chloride	X			1
Naphthalene Sulfonic Acid	X			1
Naphthalenic Acid	X			1
Naphthalenic Acid	D	D	B	A
Naphthalonic Acid	X			1
Naphthenic Acid	4			1
Naphthylamine	X			X
Naptha	4			1
Natural Gas	4			1
Natural Gas	D	B	A	A
Natural gas	4	3	1	
Natural Gas	D-Severe Effect			
Neats Foot Oil	B	D	A	A
Neatsfoot Oil	2			1
Neon	1			1
Neville Acid	2			1
Neville Acid	B	D	D	A
N-Hexaldehyde	A	D	D	D
N-Hexene-1	D	D	B	A
Nickel Acetate	1			4
Nickel Acetate (Aqueous)	A	D	B	D
Nickel Ammonium Sulfate	1			3
Nickel Chloride	1			1
Nickel Chloride	A-Excellent			
Nickel Chloride (Aqueous)	A	A	A	A
Nickel Cyanide	1			3
Nickel Nitrate	1			3
Nickel Nitrate	A-Excellent			
Nickel Salts	1			1
Nickel Sulfate	1			1
Nickel Sulfate	A-Excellent			
Nickel Sulfate (Aqueous)	A	B	A	A
Nicotinamide (Niacinamide)	X			1
Nicotinamide Hydrochloride	1			3
Nicotine	X			1
Nicotine Sulfate	1			3
Niter Cake	1			1
Niter Cake	A	A	A	A
Nitrating Acid (>15% H2SO4)	A-Excellent			

Chemical Substance	EPDM	SBR	NBR	FKM
Nitric Acid (0 - 50%)	2			1
Nitric Acid (20%)	A-Excellent			
Nitric Acid (50 - 100%)	4			3
Nitric Acid (50%)	D-Severe Effect			
Nitric Acid (5-10%)	A-Excellent			
Nitric Acid (Conc.)	D	D	D	B
Nitric Acid (Concentrated)	D-Severe Effect			
Nitric Acid (Dilute)	B	D	D	A
Nitric Acid 3 Molar to 158°F	2			3
Nitric acid conc. 65%	4	4	4	
Nitric Acid Concentrated Room Temp.	4			2
Nitric Acid Concentrated to 158°F	4			4
Nitric acid deluted 10%	1	2	2	
Nitric acid fuming 100%	4	4	4	
Nitric Acid, Red Fuming	4			2
Nitric Acid, White Fuming	X			X
Nitric Acid-Red Fuming	D	D	D	C
Nitroaniline	1			3
Nitrobenzene	1			2
Nitrobenzene	A	D	D	B
Nitrobenzene	1	4	4	
Nitrobenzene	B-Good			
Nitrobenzene (Petroleum Ether)	D	D	A	A
Nitrobenzoic Acid	1			3
Nitrocellulose	1			3
Nitrochlorobenzene	1			3
Nitrochloroform	1			3
Nitrodiethylaniline	1			3
Nitrodiphenyl Ether	X			X
Nitroethane	2			4
Nitroethane	B	B	D	D
Nitroethane	2	2	4	
Nitrofluorobenzene	1			3
Nitrogen	1			1
Nitrogen	A	A	A	A
Nitrogen	1	1	1	
Nitrogen Oxides	1			3
Nitrogen Tetroxide	C	D	D	D
Nitrogen Tetroxide (N2O4)	4			4
Nitrogen Trifluoride	X			X
Nitroglycerine	1			3
Nitrogylcerol	1			3
Nitroisopropylbenzene	1			3
Nitromethane	2			4
Nitromethane	B	B	D	D
Nitromethane	2	1	4	
Nitromethane	B-Good			
Nitrophenol	1			3
Nitropropane	2			4
Nitrosyl Chloride	X			X
Nitrosylsulfuric Acid	X			X
Nitrothiophene	1			3
Nitrotoluene	1			3
Nitrous Acid	1			3
Nitrous Acid	A-Excellent			
Nitrous Oxide	1			1
Nitrous Oxide	A-Excellent			
N-Octane	D	D	B	A
Nonane	4			1
Noryl GE Phenolic	1			X
n-Propyl Acetate	B	D	D	D

Chemical Substance	EPDM	SBR	NBR	FKM
Nyvac FR200 Mobil	1			1
O-Chloronapthalene	D	D	D	A
Octachloro Toluene	4			1
Octachlorotoluene	D	D	D	A
Octadecane	4			1
Octadecane	D	D	A	A
Octadecane	4	4	1	
Octanal (n-Octanaldehyde)	4			1
Octane or n-Octane	4			1
Octanol	1	2	2	
Octyl Acetate	1			3
Octyl Alcohol	3			1
Octyl Alcohol	C	B	B	A
Octyl Chloride	4			1
Octyl Phthalate	X			1
O-Dichlorobenzene	D	D	D	A
O-Dichlorobenzene	D	D	D	A
Oil 1 (ASTM No1, ISO 1817)	4	3	1	
Oil 2 (IRM 902, ISO 1817)	4	4	1	
Oil 3 (IRM 903, ISO 1817)	4	4	1	
Oils:Aniline	B-Good			
Oils:Castor	B-Good			
Oils:Citric	B-Good			
Oils:Coconut	D-Severe Effect			
Oils:Cod Liver	A-Excellent			
Oils:Corn	C-Fair			
Oils:Cottonseed	D-Severe Effect			
Oils:Creosote	D-Severe Effect			
Oils:Diesel Fuel (20, 30, 40, 50)	D-Severe Effect			
Oils:Fuel (1, 2, 3, 5A, 5B, 6)	D-Severe Effect			
Oils:Ginger	A-Excellent			
Oils:Hydraulic Oil (Petro)	D-Severe Effect			
Oils:Hydraulic Oil (Synthetic)	A-Excellent			
Oils:Lemon	D-Severe Effect			
Oils:Linseed	D-Severe Effect			
Oils:Mineral	D-Severe Effect			
Oils:Olive	D-Severe Effect			
Oils:Palm	A-Excellent			
Oils:Peanut	D-Severe Effect			
Oils:Pine	D-Severe Effect			
Oils:Rapeseed	A-Excellent			
Oils:Silicone	A-Excellent			
Oils:Soybean	C-Fair			
Oils:Transformer	D-Severe Effect			
Oils:Turbine	A-Excellent			
Olefins	X			1
Oleic Acid	4			2
Oleic Acid	D	D	C	B
Oleic acid	3	4	1	
Oleic Acid	B-Good			
Oleum (Fuming Sulfuric Acid)	4			1
Oleum 100%	D-Severe Effect			
Oleum 25%	D-Severe Effect			
Oleum Spirits	4			1
Oleum Spirits	D	D	B	A
Oleyl Alcohol	X			1
Olive Oil	2			1
Olive Oil	B	D	A	A
Olive oil	3	3	1	
Oronite 8200	4			1
Oronite 8515	4			1

Chemical Substance	EPDM	SBR	NBR	FKM
Ortho-Chloro Ethyl Benzene	4			1
Ortho-Chloroaniline	1			3
Ortho-Chlorophenol	1			3
Ortho-Cresol	1			3
Ortho-Dichlorobenzene	4			1
Ortho-Nitrotoluene	1			3
Orthophos Acid	X			X
OS 45 Type III (OS45)	4			1
OS 45 Type IV (OS45-1)	4			1
OS 70	4			1
Oxal acid 25%	1	1	3	
Oxalic Acid	1			1
Oxalic Acid	A	B	B	A
Oxalic Acid (cold)	A-Excellent			
Oxygen	1	1	1	
Oxygen-(200-400oF)	C	D	D	B
Oxygen, 200°-300°F (Evalute for specific applications)	4			2
Oxygen, 300°-400°F (Evalute for specific applications)	4			2
Oxygen, Cold (Evalute for specific applications)	1			1
Oxygen, Liquid	4			4
Oxygen-Cold	A	B	B	A
Ozonated Deionized Water	1			3
Ozone	1			1
Ozone	A	D	D	A
Ozone	A-Excellent			
Ozone (conc. 50pphm)	1	4	4	
Paint Thinner, Duco	4			2
Paint Thinner, Duco	D	D	D	B
Palmitic Acid	2			1
Palmitic Acid	B	B	A	A
Palmitic acid	2	3	2	
Palmitic Acid	B-Good			
Para-Aminobenzoic Acid	1			3
Para-Bromobenzylphenyl Ether	X			X
Para-Chlorophenol	1			3
Paracymene	X			1
Para-Dichlorobenzene	4			1
Paraffin	D-Severe Effect			
Paraffins	4			1
Para-Formaldehyde	1			3
Paraldehyde	1			3
Par-al-Ketone	4			4
Para-Nitroaniline	1			3
Para-Nitrobenzoic Acid	1			3
Para-Nitrophenol	1			3
Parathion	X			1
Para-Toluene Sulfonic Acid	1			3
Parker O Lube	4			1
P-Cymene	D	D	D	A
Peanut Oil	3			1
Peanut Oil	C	D	A	A
Pectin (Liquor)	X			1
Pelagonic Acid	X			X
Penicillin (Liquid)	X			1
Pentachloroethane	X			1
Pentachlorophenol	1			3
Pentaerythritol	1			3
Pentaerythritol Tetranitrate	1			3

Chemical Substance	EPDM	SBR	NBR	FKM
Pentafluoroethane (F-125)	X			X
Pentane	D-Severe Effect			
Pentane or n-Pentane	4			1
Pentane, 2 Methyl	4			1
Pentane, 2-4 dimethyl	4			1
Pentane, 3-Methyl	4			1
Penthanol (Amyl alcohol)	1	1	2	
Pentoxone	X			X
Pentyl Pentanoate	4			1
Peracetic Acid	1			3
Perchloric Acid	B	D	D	A
Perchloric Acid	B-Good			
Perchloric Acid - 2N	1			1
Perchlorid acid	1	0	4	
Perchloroethylene	4			1
Perchloroethylene	D	D	B	A
Perchloroethylene	4	4	3	
Perchloroethylene	D-Severe Effect			
Perfluoropropane	X			X
Perfluorotriethylamine	X			X
Permanganic Acid	X			X
Persulfuric Acid (Caro's Acid)	X			X
Petrolatum	4			1
Petrolatum	A-Excellent			
Petrolatum Ether	4			1
Petroleum	D-Severe Effect			
Petroleum Oil, Above 250°F	4			2
Petroleum Oil, Below 250°F	4			1
Petroleum Oil, Crude	4			1
Petroleum-Above 250oF	D	D	D	B
Petroleum-Below 250oF	D	D	A	A
Phenol	4			1
Phenol	2	4	4	
Phenol (10%)	B-Good			
Phenol (Carbolic Acid)	B	*	D	A
Phenol (Carbolic Acid)	B-Good			
Phenol, 70% / 30% H2O	4			1
Phenol, 85% / 15% H2O	4			1
Phenolic Sulfonate	1			3
Phenolsulfonic Acid	1			3
Phenyl benzene (diphenyl)	4	4	4	
Phenyl Ethyl Ether	D	D	D	D
Phenyl Hydrazine	B	B	D	B
Phenyl hydrazine	2	3	4	
Phenylacetamide	X			1
Phenylacetate	1			3
Phenylacetic Acid	1			3
Phenylbenzene	4			1
Phenylbenzene (Biphenyl) (Diphenyl)	D	D	D	A
Phenylene Diamine	X			X
Phenylethyl Alcohol	X			1
Phenylethyl Ether	4			4
Phenylethyl Malonic Ester*	X			1
Phenylglycerine	1			3
Phenylhydrazine	2			1
Phenylhydrazine Hydrochloride	1			3
Phenylmercuric Acetate	1			3
Phorone	3			4
Phorone	2	4	4	
Phorone (Diisopropylidene Acetone)	C	D	D	D
Phosgene	X			X

Chemical Substance	EPDM	SBR	NBR	FKM
Phosgene	1	0	2	
Phosphate ester (Pydraul F-9)	2	4	4	
Phosphate ester (Skydrol 500)	1	4	4	
Phosphate ester (Skydrol 7000)	1	4	4	
Phosphine	X			X
Phosphoric acid	1	1	3	
Phosphoric Acid (>40%)	B-Good			
Phosphoric Acid (crude)	B-Good			
Phosphoric Acid (≤40%)	B-Good			
Phosphoric Acid 3 Molar to 158°F	1			1
Phosphoric Acid Concentrated Room Temp	1			1
Phosphoric Acid Concentrated to 158°F	1			1
Phosphoric Acid, 20%	X			X
Phosphoric Acid, 45%	X			X
Phosphoric Acid-20%	A	B	B	A
Phosphoric Acid-45%	A	C	D	A
Phosphorus (Molten)	X			X
Phosphorus Oxychloride	X			X
Phosphorus Trichloride	1			1
Phosphorus Trichloride	A	D	D	A
Phosphorus trichloride	1	4	4	
Phosphorus Trichloride	A-Excellent			
Phosphorus Trichloride Acid	1			1
Photographic Developer	B-Good			
Photographic Solutions	A-Excellent			
Phthalic Acid	1			3
Phthalic acid	1	0	4	
Phthalic Acid	A-Excellent			
Phthalic Anhydride	1			3
Phthalic Anhydride	A-Excellent			
Pickling Solution	3			2
Pickling Solution	C	D	D	A
Picric acid	1	2	2	
Picric Acid	B	B	B	A
Picric Acid	B-Good			
Picric Acid (aq)	1			1
Picric Acid Molten	2			1
Pine Oil	4			1
Pine Oil	D	D	D	A
Pine oil	4	4	2	
Pine Tar	4			1
Pinene	4			1
Pinene	D	D	B	A
Piperazine	X			1
Piperidine	4			1
Piperidine	D	D	D	D
Piranha (H2SO4:H2O2)(70:30)	X			X
Piridine	2	4	4	
Plating Solution (Co,Cu,Au,In,Fe,Pb,Ni,Ag,Sn,Zn)	1			1
Plating Solution- Chrome	A	D	*	A
Plating Solution- Others	A	D	A	A
Plating Solutions Chrome	2			1
Plating Solutions Others	1			1
Plating Solutions, Bronze Plating: Cu-Cd Bronze Bath R.T.	A-Excellent			
Plating Solutions, Rhodium Plating 120°F	A-Excellent			
Plating Solutions, Silver Plating 80-120°F	A-Excellent			
Pneumatic Service	1			1
Polyethylene Glycol	1			3
Polyglycerol	1			3

Chemical Substance	EPDM	SBR	NBR	FKM
Polyglycol	1			3
Polyvinyl Acetate Emulsion	1			X
Polyvinyl Acetate Emulsion	A	D	*	*
Potash (Potassium Carbonate)	A-Excellent			
Potassium (Molten)	X			X
Potassium Acetate	1			4
Potassium Acetate (Aqueous)	A	D	B	D
Potassium Acid Sulfate	1			3
Potassium Alum	1			3
Potassium Aluminum Sulfate	1			3
Potassium Antimonate	1			3
Potassium Bicarbonate	1			3
Potassium Bicarbonate	A-Excellent			
Potassium Bichromate	1			3
Potassium Bifluoride	1			3
Potassium Bisulfate	1			3
Potassium Bisulfite	1			3
Potassium Bitartrate	1			3
Potassium Bromide	1			3
Potassium Bromide	A-Excellent			
Potassium Carbonate	1			3
Potassium Chlorate	1			3
Potassium Chlorate	A-Excellent			
Potassium Chloride	1			1
Potassium Chloride	A-Excellent			
Potassium Chloride (Aqueous)	A	A	A	A
Potassium Chromate	A-Excellent			
Potassium Chromates	1			3
Potassium Citrate	1			3
Potassium Cupro Cyanide	1			1
Potassium Cupro Cyanide	A	A	A	A
Potassium Cyanate	1			3
Potassium Cyanide	1			1
Potassium Cyanide (Aqueous)	A	A	A	A
Potassium Cyanide Solutions	A-Excellent			
Potassium Dichromate	1			1
Potassium Dichromate	A-Excellent			
Potassium Dichromate (Aqueous)	A	B	A	A
Potassium Diphosphate	1			3
Potassium Ferricyanide	1			3
Potassium Ferricyanide	A-Excellent			
Potassium Ferrocyanide	A-Excellent			
Potassium Fluoride	1			3
Potassium Glucocyanate	1			3
Potassium Hydroxide (Aqueous)	A	B	A	A
Potassium Hydroxide (Caustic Potash)	A-Excellent			
Potassium Hydroxide 50%	1			4
Potassium Hypochlorite	1			3
Potassium Hypochlorite	A-Excellent			
Potassium Iodate	1			3
Potassium Iodide	1			3
Potassium Iodide	A-Excellent			
Potassium Metabisulfate	1			3
Potassium Metachromate	1			3
Potassium Metasilicate	X			X
Potassium Monochromate	1			3
Potassium Nitrate	1			1
Potassium Nitrate	A-Excellent			
Potassium Nitrate (Aqueous)	A	A	A	A
Potassium Nitrite	1			3
Potassium Oxalate	1			3

Chemical Substance	EPDM	SBR	NBR	FKM
Potassium Perchlorate	1			3
Potassium Perfluoro Acetate	X			X
Potassium Permanganate	1			3
Potassium Permanganate	A-Excellent			
Potassium Peroxide	X			X
Potassium Persulfate	1			3
Potassium Phosphate (Acid)	1			3
Potassium Phosphate (Alkaline)	1			3
Potassium Phosphate (Di/Tri Basic)	1			3
Potassium Pyrosulfate	1			3
Potassium Salts	1			1
Potassium Silicate	X			X
Potassium Sodium Tartrate	1			3
Potassium Stannate	1			3
Potassium Stearate	1			3
Potassium Sulfate	1			1
Potassium Sulfate	A-Excellent			
Potassium Sulfate (Aqueous)	A	A	A	A
Potassium Sulfide	1			3
Potassium Sulfide	A-Excellent			
Potassium Sulfite	1			1
Potassium Tartrate	1			3
Potassium Thiocyanate	1			3
Potassium Thiosulfate	1			3
Potassium Triphosphate	1			3
Prestone Antifreeze	1			1
PRL-High Temp. Hydr. Oil	4			1
Producer Gas	4			1
Producer Gas	D	D	A	A
Propane	4			1
Propane	D	D	A	A
Propane (liquefied)	D-Severe Effect			
Propane liquid	4	4	1	
Propanol	1	1	2	
Propene (propylene)	4	4	3	
Propene oxide	2	4	4	
Propionaldehyde	1			3
Propionic Acid	1			3
Propionic acid	1	0	4	
Propionitrile	4			1
Propyl Acetate	2			4
Propyl acetate	2	4	4	
Propyl Acetone (Methyl Butyl Ketone)	A	D	D	D
Propyl Acetone or n-Propyl Acetone	1			4
Propyl Alcohol	1			1
Propyl Alcohol	A	A	A	A
Propyl amine	3	4	4	
Propyl Nitrate	2			4
Propyl Nitrate	B	D	D	D
Propyl nitrate	2	0	0	
Propyl Propionate	1			3
Propylamine	1			3
Propylbenzene	X			1
Propylene	4			1
Propylene	D	D	D	A
Propylene	D-Severe Effect			
Propylene Chloride	X			1
Propylene Chlorohydrin	X			1
Propylene Dichloride	X			1
Propylene Glycol	1			3
Propylene Glycol	A-Excellent			

Chemical Substance	EPDM	SBR	NBR	FKM
Propylene Imine	X			1
Propylene Oxide	2			4
Propylene Oxide	B	D	D	D
Pydraul 90e	1			1
Pydraul, 10E	1			4
Pydraul, 10E, 29 ELT	A	D	D	A
Pydraul, 115E	1			1
Pydraul, 115E	A	D	D	A
Pydraul, 230C, 312C, 540C, A200	4			1
Pydraul, 230E, 312C, 540C	D	D	D	A
Pydraul, 29ELT 30E, 50E, 65E	1			1
Pydraul, 30E, 50E, 65E, 90E	A	D	D	A
Pyranol Transformer Oil	4			1
Pyranol, Transformer Oil	D	D	A	A
Pyridine	2			1
Pyridine	B	D	D	D
Pyridine	B-Good			
Pyridine Oil	2			4
Pyridine Sulfate	1			3
Pyridine Sulfonic Acid	1			3
Pyrogallic Acid	B-Good			
Pyrogallol (Pyrogallic Acid)	4			1
Pyrogard 42, 43, 55	1			1
Pyrogard 53, Mobil Phosphate Ester	1			1
Pyrogard D, Mobil Water-in-Oil Emulsion	4			4
Pyroligneous Acid	2			4
Pyroligneous Acid	B	D	D	D
Pyrolube	2			1
Pyrosulfuric Acid	1			3
Pyrosulfuryl Chloride	4			1
Pyrrole	4			4
Pyrrole	C	C	D	D
Pyrrole	3	3	4	
Pyruvic Acid	1			3
Quinidine	4			1
Quinine	4			1
Quinine Bisulfate	1			3
Quinine Hydrochloride	1			3
Quinine Sulfate	1			3
Quinine Tartrate	1			3
Quinizarin	4			1
Quinoline	4			1
Quinone	4			1
Radiation	B	C	C	C
Radiation (Gamma, 1.0 E+07 Rads)	2			4
Raffinate	4			1
Rapeseed Oil	1			1
Rapeseed Oil	A	D	B	A
Red Line 100 Oil	4			1
Red Oil (MIL-H-5606)	4			1
Red Oil (MIL-H-5606)	D	D	A	A
Resorcinal	B-Good			
Resorcinol	1			3
Rhodium	X			X
Riboflavin	4			1
Ricinoleic Acid	4			1
RJ-1 (MIL-F-25558 B)	D	D	A	A
RJ-1 (MIL-F-25558)	4			1
RJ-4 (MIL-F-82522)	4			1
Rosin	4			1
RP-1 (MIL-F-25576 C)	D	D	A	A

Chemical Substance	EPDM	SBR	NBR	FKM
RP-1 (MIL-R-25576)	4			1
Rum	A-Excellent			
Saccharin Solution	1			3
Sal Ammoniac	1			1
Sal Ammoniac	A	A	A	A
Salicylic Acid	1			1
Salicylic Acid	A	B	B	A
Salicylic acid	1	1	1	
Salicylic Acid	A-Excellent			
Salt and salt solution (non-oxidizing)	1	1	1	
Salt Brine (NaCl saturated)	A-Excellent			
Salt Water	A	A	A	A
Santo Safe 300	3			1
Sea (Salt) Water	1			1
Sea Water	A-Excellent			
Sea water (brine)	1	1	1	
Sebacic Acid	1			3
Selenic Acid	1			3
Selenous Acid	1			3
Sewage	1			1
Sewage	B	B	A	A
Sewage	1	1	1	
SF 1154 GE Silicone Fluid	1			1
SF1147 GE Silicone Fluid	3			1
SF96 GE SIlicone Fluid	1			1
Shell 3XF Mine Fluid (Fire resist hydr.)	4			1
Shell Alvania Grease #2	4			1
Shell Carnea 19 and 29	4			1
Shell Diala	4			1
Shell Irus 905	4			1
Shell Lo Hydrax 27 and 29	4			1
Shell Macome 72	4			1
Shell Tellus #32 (Petroleum Base)	4			1
Shell Tellus #68	4			1
Shell Tellus 27 (Petroleum Base)	4			1
Shell Tellus 33	4			1
Shell UMF (5% Aromatic)	4			1
Shellac	1			3
Shellac (Bleached)	A-Excellent			
Shellac (Orange)	A-Excellent			
Silane	X			X
Silicate Esters	4			1
Silicate Esters	D	D	B	A
Silicate esters	4	4	2	
Silicon Fluoride	X			X
Silicon Tetrachloride	X			X
Silicon Tetrafluoride	X			X
Silicone	A-Excellent			
Silicone Greases	1			1
Silicone Greases	A	A	A	A
Silicone greases	1	0	1	
Silicone Oils	1			1
Silicone Oils	A	A	A	A
Silicone oils	1	0	1	
Silver Bromide	1			3
Silver Chloride	1			3
Silver Cyanide	1			3
Silver Nitrate	1			1
Silver Nitrate	A	A	B	A
Silver Nitrate	A-Excellent			
Silver Sulfate	1			3

Chemical Substance	EPDM	SBR	NBR	FKM
Sinclair Opaline CX-EP Lube	4			1
Skelly, Solvent B, C, E	4			1
Skydrol 500	A	D	D	D
Skydrol 500 B4	1			4
Skydrol 7000	1			2
Skydrol 7000	A	D	D	B
Skydrol LD-4	1			4
Soap solution	1	1	1	
Soap Solutions	1			1
Soap Solutions	A	A	A	A
Soap Solutions	A-Excellent			
Socony Mobile Type A	4			1
Socony Vacuum AMV AC781 (Grease)	4			1
Socony Vacuum PD959B	4			1
Soda Ash	1			1
Soda Ash	A	A	A	A
Soda Ash (see Sodium Carbonate)	A-Excellent			
Sodium (Molten)	X			X
Sodium Acetate	1			4
Sodium Acetate	A-Excellent			
Sodium Acetate (Aqueous)	A	D	B	D
Sodium Acid Bisulfate	1			3
Sodium Acid Fluoride	1			3
Sodium Acid Sulfate	1			3
Sodium Aluminate	1			3
Sodium Aluminate	A-Excellent			
Sodium Aluminate Sulfate	1			3
Sodium Anthraquinone Disulfate	1			3
Sodium Antimonate	1			3
Sodium Arsenate	1			3
Sodium Arsenite	1			3
Sodium Benzoate	1			3
Sodium Benzoate	A-Excellent			
Sodium Bicarbonate	A-Excellent			
Sodium Bicarbonate (Aqueous)(Baking Soda)	A	A	A	A
Sodium Bicarbonate (Baking Soda)	1			1
Sodium Bichromate	1			3
Sodium Bifluoride	1			3
Sodium Bisulfate	A-Excellent			
Sodium Bisulfate or Bisulfite	1			1
Sodium Bisulfide	1			3
Sodium Bisulfite	A-Excellent			
Sodium Bisulfite (Aqueous)	A	B	A	A
Sodium Bitartrate	1			3
Sodium Borate	1			1
Sodium Borate (Aqueous)	A	A	A	A
Sodium Borate (Borax)	A-Excellent			
Sodium Bromate	1			3
Sodium Bromide	1			3
Sodium Bromide	A-Excellent			
Sodium carbonate	1	1	1	
Sodium Carbonate	A-Excellent			
Sodium Carbonate (Soda Ash)	1			1
Sodium Chlorate	1			3
Sodium Chlorate	A-Excellent			
Sodium Chloride	1			1
Sodium Chloride	A-Excellent			
Sodium Chloride (Aqueous)	A	A	A	A
Sodium Chlorite	1			3
Sodium Chloroacetate	1			3

Chemical Substance	EPDM	SBR	NBR	FKM
Sodium Chromate	1			3
Sodium Citrate	1			3
Sodium Cyanamide	1			3
Sodium Cyanate	1			3
Sodium Cyanide	1			X
Sodium Cyanide	A-Excellent			
Sodium Cyanide (Aqueous)	A	A	A	A
Sodium Diacetate	1			3
Sodium Diphenyl Sulfonate	1			3
Sodium Diphosphate	1			3
Sodium Disilicate	1			3
Sodium Ethylate	1			3
Sodium Ferricyanide	1			3
Sodium Ferrocyanide	1			3
Sodium Ferrocyanide	A-Excellent			
Sodium Fluoride	1			3
Sodium Fluoride	A-Excellent			
Sodium Fluorosilicate	1			3
Sodium Glutamate	1			3
Sodium Hydride	X			X
Sodium hydrogen carbonate	1	1	1	
Sodium Hydrogen Sulfate	1			3
Sodium Hydrosulfide	1			3
Sodium Hydrosulfite	1			3
Sodium Hydrosulfite	B-Good			
Sodium hydroxide	1	1	1	
Sodium hydroxide	1	1	4	
Sodium Hydroxide (20%)	B-Good			
Sodium Hydroxide (50%)	B-Good			
Sodium Hydroxide (80%)	B-Good			
Sodium Hydroxide (Aqueous)	A	A	B	B
Sodium Hydroxide, 3 Molar	1			2
Sodium hypochlorite	1	2	3	
Sodium Hypochlorite	1			1
Sodium Hypochlorite (<20%)	B-Good			
Sodium Hypochlorite (100%)	B-Good			
Sodium Hypochlorite (Aqueous) (Chlorox)	B	D	B	A
Sodium Hypophosphate	1			3
Sodium Hypophosphite	1			3
Sodium Hyposulfite	1			3
Sodium Iodide	1			3
Sodium Lactate	1			3
Sodium Metaphosphate	1			1
Sodium Metaphosphate	A-Excellent			
Sodium Metaphosphate (Aqueous)	A	A	A	A
Sodium Metasilicate	1			3
Sodium Metasilicate	A-Excellent			
Sodium Methylate	1			3
Sodium Monophosphate	1			3
Sodium Nitrate	1			X
Sodium Nitrate	A-Excellent			
Sodium Nitrate (Aqueous)	A	A	B	A
Sodium Oleate	1			3
Sodium Orthosilicate	1			3
Sodium Oxalate	1			3
Sodium Perborate	1			1
Sodium Perborate	A-Excellent			
Sodium Perborate (Aqueous)	A	B	B	A
Sodium Percarbonate	1			3
Sodium Perchlorate	1			3
Sodium Peroxide	1			1

Chemical Substance	EPDM	SBR	NBR	FKM
Sodium peroxide	1	2	0	
Sodium Peroxide	A-Excellent			
Sodium Peroxide (Aqueous)	A	B	B	B
Sodium Persulfate	1			3
Sodium Phenolate	1			3
Sodium Phenoxide	1			3
Sodium Phosphate (Aqueous)	A	A	A	A
Sodium Phosphate (Dibasic)	1			1
Sodium Phosphate (Mono)	1			1
Sodium Phosphate (Tribasic)	1			1
Sodium Plumbite	1			3
Sodium Polyphosphate	A-Excellent			
Sodium Pyrophosphate	1			3
Sodium Resinate	1			3
Sodium Salicylate	1			3
Sodium Salts	1			1
Sodium Sesquisilicate	X			X
Sodium Silicate	1			1
Sodium Silicate	A-Excellent			
Sodium Silicate (Aqueous)	A	A	A	A
Sodium Silicofluoride	X			X
Sodium Stannate	1			3
Sodium Sulfate	1			1
Sodium Sulfate	A-Excellent			
Sodium Sulfate (Aqueous)	A	B	A	A
Sodium Sulfide	A-Excellent			
Sodium Sulfide and Sulfite	1			1
Sodium Sulfite	A-Excellent			
Sodium Sulfocyanide	1			3
Sodium Tartrate	1			3
Sodium Tetraborate	1			3
Sodium Tetraborate	A-Excellent			
Sodium Tetraphosphate	1			3
Sodium Tetrasulfide	1			3
Sodium Thioarsenate	1			3
Sodium Thiocyanate	1			3
Sodium Thiosulfate	1			1
Sodium Thiosulfate (Aqueous)	A	B	B	A
Sodium Thiosulfate (hypo)	A-Excellent			
Sodium Trichloroacetate	1			3
Sodium Triphosphate	1			3
Solvesso 100, 150	X			X
Sorbitol	1			3
Sour Crude Oil	4			1
Sour Natural Gas	4			1
Sovasol No. 1, 2, and 3	4			1
Sovasol No. 73 and 74	4			1
Soybean Oil	3			1
Soybean Oil	C	D	A	A
Soybean oil	3	3	1	
Spry	2			1
SR-10 Fuel	4			1
SR-6 Fuel	4			1
Standard Oil Mobilube GX90-EP Lube	4			1
Stannic Ammonium Chloride	1			3
Stannic Chloride	1			1
Stannic Chloride	A-Excellent			
Stannic Chloride (Aqueous)	A	A	A	A
Stannic Chloride, 50%	1			1
Stannic Tetrachloride	1			3
Stannous Bisulfate	1			3

Chemical Substance	EPDM	SBR	NBR	FKM
Stannous Bromide	1			3
Stannous Chloride	C-Fair			
Stannous Chloride (15%)	1			1
Stannous Chloride (Aqueous)	A	A	A	A
Stannous Fluoride	1			3
Stannous Sulfate	1			3
Starch	A-Excellent			
Stauffer 7700	4			1
Steam	1	3	1	
Steam	1	3	1	
Steam Below 400°F	1			4
Steam Over 300oF	C	D	D	D
Steam Under 300oF	A	D	D	D
Steam, 400° - 500°F	3			4
Steam, Above 500°F	X			X
Stearic Acid	2			X
Stearic Acid	B	B	B	A
Stearic acid	2	3	2	
Stearic Acid	B-Good			
Stoddard Solvent	4			1
Stoddard Solvent	D	D	A	A
Stoddard Solvent	D-Severe Effect			
Strontium Acetate	1			3
Strontium Carbonate	1			3
Strontium Chloride	1			3
Strontium Hydroxide	1			3
Strontium Nitrate	1			3
Styrene	D	D	D	B
Styrene	4	4	4	
Styrene	D-Severe Effect			
Styrene (Monomer)	4			2
Succinic Acid	1			3
Sucrose Solution	A	A	A	A
Sucrose Solutions	1			1
Sugar (Liquids)	A-Excellent			
Sulfamic Acid	1			3
Sulfanilic Acid	1			3
Sulfanilic Chloride	4			1
Sulfanilimide	4			1
Sulfate (Liquors)	A-Excellent			
Sulfite Liquors	1			3
Sulfite Liquors	B	B	B	A
Sulfolane	1			2
Sulfonated Oils	4			1
Sulfonic Acid	1			3
Sulfonyl Choride	1			3
Sulfur	1			1
Sulfur	A	D	D	A
Sulfur	1	4	4	
Sulfur (Molten)	3			1
Sulfur Chloride	4			1
Sulfur Chloride	D-Severe Effect			
Sulfur Chloride (Aqueous)	D	D	C	A
Sulfur dioxide	1	3	3	
Sulfur Dioxide	A-Excellent			
Sulfur Dioxide (Dry)	A	B	D	B
Sulfur Dioxide (dry)	A-Excellent			
Sulfur Dioxide (Liquified Under Pressure)	A	D	D	B
Sulfur Dioxide (Wet)	A	D	D	B
Sulfur Dioxide, Dry	1			4
Sulfur Dioxide, Liquidified under pressure	1			4

Chemical Substance	EPDM	SBR	NBR	FKM
Sulfur Dioxide, Wet	1			4
Sulfur Hexafluoride	1			3
Sulfur Hexafluoride	A	D	B	A
Sulfur hexafluoride	1	1	1	
Sulfur Hexafluoride	B-Good			
Sulfur Liquors	2			1
Sulfur Monochloride	4			1
Sulfur Tetrafluoride	X			X
Sulfur Trioxide	B	B	D	A
Sulfur Trioxide	C-Fair			
Sulfur Trioxide (dry)	C-Fair			
Sulfur Trioxide Dry	2			1
Sulfuric acid 10% 100°C	1	1	3	
Sulfuric acid 20% 23°C	0	1	1	
Sulfuric acid 25% 100°C	0	1	4	
Sulfuric acid 50% 100°C	0	1	4	
Sulfuric acid 60% 100°C	0	3	4	
Sulfuric acid 75%100°C	3	4	4	
Sulfuric acid 96% 23°C	4	4	4	
Sulfuric Acid (<10%)	A-Excellent			
Sulfuric Acid (10-75%)	B-Good			
Sulfuric Acid (20% Oleum)	1			3
Sulfuric Acid (20% Oleum)	D	D	D	A
Sulfuric Acid (75-100%)	B-Good			
Sulfuric Acid (cold concentrated)	C-Fair			
Sulfuric Acid (conc.)	C	D	D	A
Sulfuric Acid (Dilute)	B	C	C	A
Sulfuric Acid (hot concentrated)	D-Severe Effect			
Sulfuric Acid, 3 Molar to 158°F	1			1
Sulfuric Acid, Concentrated Room Temp	3			1
Sulfuric Acid, Concentrated to 158°F	4			1
Sulfuric Chlorohydrin (Chlorosulfonic Acid)	1			3
Sulfurous Acid	2			1
Sulfurous Acid	B	B	B	C
Sulfurous acid	2	2	2	
Sulfurous Acid	B-Good			
Sulfuryl chloride	2	0	4	
Sunoco #3661	4			1
Sunoco All purpose grease	4			1
Sunoco SAE 10	4			1
Sunsafe (Fire resist. hydr. fluid)	4			1
Super Shell Gas	4			1
Surfuryl Chloride	1			3
Swan Finch EP Lube	4			1
Swan Finch Hypoid-90	4			1
Tallow	4			1
Tallow	A-Excellent			
Tannic Acid	A	B	A	A
Tannic acid	1	2	1	
Tannic Acid	A-Excellent			
Tannic Acid (10%)	1			1
Tanning Liquors	B-Good			
Tar, Bitruminous	C	D	B	A
Tar, bituminous	4			1
Tar, butiminous	4	4	2	
Tartaric acid	2	1	1	
Tartaric Acid	2			1
Tartaric Acid	B	D	A	A
Tartaric Acid	B-Good			
Tellone II	X			X
Terephthalic Acid	1			3

Chemical Substance	EPDM	SBR	NBR	FKM
Terpineol	3			1
Terpineol	C	D	B	A
Terpineol	3	4	1	
Terpinyl Acetate	4			1
Tertiary Amyl Methyl Ether (TAME)	X			X
Tertiary Butyl Alcohol	B	B	B	A
Tertiary Butyl Catechol	B	B	D	A
Tertiary Butyl Catechol or p-tert-butylcatechol	2			1
Tertiary Butyl Mercaptan	4			1
Tertiary Butyl Mercaptan	D	D	D	A
Tetrabromoethane	4			1
Tetrabromoethane	D	D	D	A
Tetrabromomethane	4			1
Tetrabromomethane	D	D	D	A
Tetrabutyl Titanate	1			1
Tetrabutyl Titanate	A	B	B	A
Tetrabutyl titanate	1	2	1	
Tetrachloroethane	D-Severe Effect			
Tetrachloroethylene	4			1
Tetrachloroethylene	D	D	D	A
Tetrachloroethylene	D-Severe Effect			
Tetrachoroethane	4			1
Tetraethyl Lead	4			1
Tetraethyl Lead “Blend” V1164-75	4			1
Tetraethyl Orthosilicate (TEOS)	X			X
Tetrahydrofuran	2			4
Tetrahydrofuran	C	D	D	D
Tetrahydrofuran	4	4	4	
Tetrahydrofuran	D-Severe Effect			
Tetralin	4			1
Tetralin	D	D	D	B
Tetralin	4	4	4	
Tetramethyl Ammonium Hydroxide	1			3
Tetramethylcyclotetrasiloxane (TMCTS)	X			X
Tetramethyldihydropyridine	4			1
Tetramethyldihydropyridine	4			1
Tetraphosphoglucosate	1			3
Tetraphosphoric Acid	X			X
Texaco 3450 Gear Oil	4			1
Texaco Capella A and AA	4			1
Texaco Meropa 220 (No Lead)	4			1
Texaco Regal B	4			1
Texaco Uni-Temp Grease	4			1
Texamatic “A” 1581 Fluid	4			1
Texamatic “A” 3401 Fluid	4			1
Texamatic “A” 3525 Fluid	4			1
Texamatic “A” 3528 Fluid	4			1
Texamatic “A” Transmission Oil	4			1
Texas 1500 Oil	4			1
Therminol 44	4			1
Therminol 55	4			1
Therminol 66	X			X
Therminol FR	X			X
Therminol VP-1, 60, 65	4			1
Thio Acid Chloride	X			X
Thioamyl Alcohol	4			1
Thiodiacetic Acid	1			3
Thioethanol	1			3
Thioglycolic Acid	1			3
Thiokol TP-90B	1			1

Chemical Substance	EPDM	SBR	NBR	FKM
Thiokol TP-95	1			1
Thionyl Chloride	4			1
Thionyl Chloride	C	D	D	B
Thiophene (Thiofuran)	4			1
Thiophosphoryl Chloride	1			3
Thiourea	1			3
Thorium Nitrate	1			3
Tidewater Multigear, 140 EP Lube	4			1
Tidewater Oil-Beedol	4			1
Tin Ammonium Chloride	1			3
Tin Chloride	4			1
Tin Salts	B-Good			
Tin Tetrachloride	4			1
Titanic Acid	1			3
Titanium Dioxide	1			3
Titanium Sulfate	1			3
Titanium Tetrachloride	4			1
Titanium Tetrachloride	D	D	B	A
Titanium tetrachloride	4	4	3	
Toluene	4			1
Toluene	D	D	D	B
Toluene (Toluol)	D-Severe Effect			
Toluene Bisodium Sulfite	X			X
Toluene Diisocyanate	B	D	D	D
Toluene Diisocyanate (TDI)	2			4
Toluene Sulfonyl Chloride	4			1
Toluenesulfonic Acid	1			3
Toluidine	4			1
Toluol	1			3
Toluquinone	4			1
Tolylaldehyde	1			3
Tomato Juice	A-Excellent			
Transformer Oil	4			1
Transformer Oil	D	D	A	A
Transformer oil	4	4	1	
Transmission Fluid Type A	4			1
Transmission Fluid Type A	D	D	A	A
Trethanol Amine	A	B	B	D
Triacetin	1			4
Triacetin	A	B	B	D
Triacetin	1	3	2	
Triaryl Phosphate	1			1
Triaryl Phosphate	A	D	D	A
Triaryl phosphate	1	4	4	
Tribromomethylbenzene	4			1
Tributoxy Ethyl Phosphate	A	B	D	A
Tributoxy ethyl phosphate	2	3	4	
Tributoxyethyl Phosphate	1			1
Tributyl Citrate	1			3
Tributyl Mercaptan	4			1
Tributyl Mercaptan	D	D	D	A
Tributyl Phosphate	1			4
Tributyl Phosphate	B	D	D	D
Tributyl phosphate	1	3	4	
Tributylamine	X			X
Trichloracetic acid	2	0	4	
Trichloroacetic Acid	2			3
Trichloroacetic Acid	B	B	B	D
Trichloroacetic Acid	B-Good			
Trichloroacetyl Chloride	4			1
Trichlorobenzene	4			1

Chemical Substance	EPDM	SBR	NBR	FKM
Trichloroethan	4	4	4	
Trichloroethane	4			1
Trichloroethane	D	D	D	A
Trichloroethane	D-Severe Effect			
Trichloroethanolamine	1			3
Trichloroethylene	4			1
Trichloroethylene	D	D	D	A
Trichloroethylene	4	4	4	
Trichloroethylene	D-Severe Effect			
Trichloromethane	4			1
Trichloronitromethane (Chloropicrin)	1			3
Trichlorophenylsilane	X			X
Trichloropropane	4			1
Trichlorosilane	4			1
Tricresyl Phosphate	1			2
Tricresyl Phosphate	D	A	D	A
Tricresyl phosphate	1	3	4	
Tricresylphosphate	A-Excellent			
Triethanol Amine	2			4
Triethanolamin	2	2	3	
Triethyl Aluminum	C	D	D	B
Triethyl Borane	C	D	D	A
Triethyl borane	3	0	0	
Triethyl Phosphate	4			1
Triethylaluminum	X			X
Triethylamine	4	4	1	
Triethylamine	A-Excellent			
Triethylborane	X			X
Triethylene Glycol	1			3
Triethylenetetramine	1			3
Trifluoroacetic Acid	1			3
Trifluoroethane	4			1
Trifluoromethane	4			1
Trifluorovinylchloride	4			1
Triisopropylbenzylchloride	4			1
Trimethylamine	1			3
Trimethylamine (TMA)	1			3
Trimethylbenzene	4			1
Trimethylborate (TMB)	4			1
Trimethylpentane	4			1
Trinitrololuene (TNT)	4			2
Trinitrotoluene	D	D	D	B
Trinitrotoluene	4	4	4	
Trioctyl Phosphate	1			2
Trioctyl Phosphate	A	D	D	B
Trioctyl phosphate	1	4	4	
Triphenylphosphite	1			3
Tripoly Phosphate	1			2
Tripotassium Phosphate	1			3
Trisodium Phosphate	1			3
Trisodium Phosphate	A-Excellent			
Tritium	X			X
Tung Oil (China Wood Oil)	4			1
Tung Oil (China Wood Oil)	C	D	A	A
Tungsten Hexafluoride	X			X
Tungstic Acid	X			X
Turbine Oil	4			1
Turbine Oil	D	D	B	A
Turbine Oil #15 (MIL-L-7808A)	4			1
Turbo Oil #35	4			1
Turpentine	4			1

Chemical Substance	EPDM	SBR	NBR	FKM
Turpentine	D	D	A	A
Turpentine	4	4	1	
Turpentine	D-Severe Effect			
Type I Fuel (MIL-S-3136)(ASTM Ref. Fuel A)	4			1
Type II Fuel MIL-S-3136	4			1
Type III Fuel MIL-S-3136(ASTM Ref. Fuel B)	4			1
Ucon Hydrolube J-4	1			1
Ucon Lubricant 50-HB-100	1			1
Ucon Lubricant 50-HB-260	1			1
Ucon Lubricant 50-HB-5100	1			1
Ucon Lubricant 50-HB55	1			1
Ucon Lubricant 50-HB-660	1			1
Ucon Lubricant LB-1145	1			1
Ucon Lubricant LB-135	1			1
Ucon Lubricant LB-285	1			1
Ucon Lubricant LB-300X	1			1
Ucon Lubricant LB-625	1			1
Ucon Lubricant LB-65	1			1
Ucon Oil 50-HB-280X	1			3
Ucon Oil Heat Transfer Fluid 500 (Polyalkalene Glycol)	1			1
Ucon Oil LB-385	1			1
Ucon Oil LB-400X	1			1
Undecylenic Acid	4			1
Undecylic Acid	4			1
Univis 40 (Hydr. Fluid)	4			1
Univolt #35 (Mineral Oil)	4			1
Unsymmetrical Dimethyl Hydrazine (UDMH)	1			4
UPDI(Ultrapure Deionized Water)	1			3
Uranium Hexachloride	X			1
Uranium Hexafluoride	X			X
Uranium Sulfate Factory	X			X
Urea	A-Excellent			
Urea solution	1	1	1	
Uric Acid	1			3
Urine	A-Excellent			
Usymmetrical Dimethyl Hydrazine	A	A	B	D
Valeraldehyde	1			3
Valeric Acid	1			3
Vanadium Oxide	4			1
Vanadium Pentoxide	4			1
Varnish	4			1
Varnish	D	D	B	A
Varnish	D-Severe Effect			
Vegetable Juice	A-Excellent			
Vegetable Oil	3			1
Vegetable oil	2	4	1	
Vegetable Oils	C	D	A	A
Versilube F44, F55	1			1
Versilube F-50	1			1
Versilube F-50	A	A	A	A
Vinegar	2			3
Vinegar	A	B	B	A
Vinegar	A-Excellent			
Vinyl Acetate	1			3
Vinyl Acetate	B-Good			
Vinyl Benzene	4			1
Vinyl Benzoate	4			1
Vinyl Chloride	4			1
Vinyl Chloride	D	D	D	A
Vinyl chloride	2	0	4	

Chemical Substance	EPDM	SBR	NBR	FKM
Vinyl Chloride	C-Fair			
Vinyl Fluoride	4			1
Vinylidene Chloride	4			1
Vinylpyridine	4			1
Vitriol (White)	1			3
VV-H-910	1			1
Wagner 21B Brake Fluid	A	A	C	D
Water	1			2
Water	A	A	A	A
Water, Acid, Mine	A-Excellent			
Water, Deionized	A-Excellent			
Water, deionized or distilled 23ºC	1	1	2	
Water, deionized or distilled 100ºC	1	1	2	
Water, Distilled	A-Excellent			
Water, Fresh	A-Excellent			
Water, Salt	A-Excellent			
Wemco C	4			1
Whiskey & Wines	A-Excellent			
Whiskey and Wines	1			1
Whiskey, Wines	A	A	A	A
White Liquor	1			1
White Oil	4			1
White Oil	D	D	A	A
White Pine Oil	4			1
White Pine Oil	D	D	B	A
Wolmar Salt	1			1
Wood Alcohol	1			4
Wood Oil	4			1
Wood Oil	D	D	A	A
Xenon	1			1
Xylene	4			1
Xylene	D	D	D	A
Xylene	4	4	4	
Xylene	D-Severe Effect			
Xylidenes-Mixed-Aromatic Amines	1			4
Xylidine (Di-methyl Aniline)	B	C	C	D
Xylol	4			1
Zeolites	1			1
Zeolites	A	A	A	A
Zinc Acetate	1			4
Zinc Acetate (Aqueous)	A	D	B	D
Zinc Ammonium Chloride	1			3
Zinc Chloride	1			1
Zinc Chloride	A-Excellent			
Zinc Chloride (Aqueous)	A	A	A	A
Zinc Chromate	1			3
Zinc Cyanide	1			3
Zinc Diethyldithiocarbamate	1			3
Zinc Dihydrogen Phosphate	1			3
Zinc Fluorosilicate	X			X
Zinc Hydrosulfite	1			3
Zinc Hydrosulfite	A-Excellent			
Zinc Naphthenate	X			X
Zinc Nitrate	1			1
Zinc Oxide	1			1
Zinc Phenolsulfonate	1			3
Zinc Phosphate	1			1
Zinc Salts	1			1
Zinc Silicofluoride	X			X
Zinc Stearate	1			3
Zinc Sulfate	1			1

Chemical Substance	EPDM	SBR	NBR	FKM
Zinc Sulfate	A-Excellent			
Zinc Sulfate (Aqueous)	A	B	A	A
Zinc Sulfide	1			3
Zirconium Nitrate	1			1

ANEXO 4: Tabla de compatibilidad química para POLIAMIDA 6 (PA6) y otros polímeros

Valoración DUPONT https://dupont.materialdatacenter.com/profiler/G7BZ7/

Possibly resistant: Defined as: Supplier has sufficient indication that contact with chemical can be potentially accepted under the
Not recommended: Defined as: Not recommended for general use. However, short-term exposure under certain restricted conditions

Valoración BASF https://www.basf.com/documents/cn/en/.../Ultramid_brochure.pdf
Highly resistant: empirical value from numerous applications under their typical conditions
Somewhat resistant: known applications, thorough testing and case-to-case evaluations necessary
Not resistant
Triggers stress cracking
Solvents

Valoración Empresa NYLACAST https://www.nylacast.com/
Good resistance
Resistant
Partially resistant
Non resistant
Dissolves

Valoración Empresa SOLID SPOT http://www.solidspot.com/
O Can be used
Δ Can be used depending on condition
X Can not be used
- No data

Valoración Empresa RODAVIGO-MURRPLASTIK http://www.murrplastik.com/products/cable-entry/advice-and-technical-information/chemical-resistance/
+ Resistente
o Parcialmente resistente
- No resistente

Valoración Empresa HUNTINGDON FUSION https://www.huntingdonfusion.com/index.php/es/
Excellent resistance
No effect
Resistant.
Minimal effect
Moderae effect
Etched
Possible attack
Partially disolves
Severe attack
Severe effect Not recommended
Temporary loss of stiffness
Dissolves
Strong Attack
Not recommended

Chemical name	PA6	PP	PE	PA 12
<60°C [<140°F] anti-freeze agents for windshield washi	Highly resistant			
<60°C [<140°F] ethanol	Highly resistant			
<60°C [<140°F] fuels (E10, E50, E90)	Highly resistant			
<60°C [<140°F] isopropanol	Highly resistant			
<60°C [<140°F] methanol	Highly resistant			
<60°C [<140°F] spirits	Highly resistant			
Aceites y grasas; 20ºC	+	+	o	+
Acetaldehyde	O	O		-
Acetaldehyde, CH3CHO; undiluted and at any conc%; 25ºC	Resistant			Resistant
Acetamide, CH3CONH2; 50%; 25ºC	Resistant			Resistant
Acetato de butilo; 100%; 20ºC		o		
Acetato vinilico; 100%; 20ºC				
Acetic acid	X	O		Δ
Acetic acid (5% by mass) 23ºC	Possibly resistant			
Acetic Acid (Conc)	Partially Dissolves			
Acetic Acid (Dilute)	Etched			
Acetic acid, CH3COOH; 10%; 25ºC	Resistant			Resistant

Chemical name	PA6	PP	PE	PA 12
Acetic acid, CH3COOH; 10%; 50ºC	Partially resistant			Partially resistant
Acetic acid, CH3COOH; 5%; 25ºC	Resistant			Resistant
Acetic acid, CH3COOH; 95%; 90ºC	Non resistant			Partially resistant
Acético ácido; 10%; 20ºC	o	+	+	o
Acético glacial; 100%; 20ºC		+		o
Acetón; 100%; 20ºC	+	+	+	+
Acetone	-	-		-
Acetone	Unchanged			
Acetone (23ºC)	Possibly resistant			
Acetone, CH3COCH3; 50%; 25ºC	Resistant			Resistant
Acetone, CH3COCH3; undiluted%; 25ºC	Resistant			Resistant
Acetylene, HC≡CH; undiluted%; 25ºC	Resistant			Resistant
Alílico alcohol; 96%; 20ºC	30% o	+		o
Alkaline concrete	Highly resistant			
Alumbre de cromo, acuoso; diluido%; 40ºC		+		
Alumbre, acuoso; diluido%; 40ºC		+		+
Aluminium sulphate, Al2(SO4)3; 5%; 25ºC	Resistant			Resistant
Aluminium sulphate, Al2(SO4)3; saturated%; 25ºC				Resistant
Amines	Somewhat resistant			
Ammonia	O	O		O
Ammonia solution	Somewhat resistant			
Ammonia, NH3; 20%; 25ºC	Partially resistant			Resistant
Ammonium chloride, NH4Cl; 10%; 25ºC	Resistant			Resistant
Ammonium hydroxide, NH4OH; 20%; 25ºC	Resistant			Resistant
Ammonium nitrate	O	O		-
Ammonium nitrate, NH4 NO3; 10%; 25ºC	Resistant			Resistant
Ammonium phosphate, (NH4)2HPO4; 10%; 25ºC	Resistant			
Ammonium sulphate, (NH4)2SO4; 10%; 25ºC	Resistant			Resistant
Amoniaco, acuoso; todas%; 20ºC	20% +	+	+	
Amoniaco, acuoso; todas%; 60ºC	10% +	+	+	
Amonium hidroxide solution (10% by mass) (23ºC)	Possibly resistant			
Amyl Acetate	Unchanged			
Anilina, pura; 100%; 20ºC	o	+	+	o
Aniline, C6H5NH2; undiluted%; 25ºC	Partially resistant			Partially resistant
Antiknock agents for fuels (TBME, ETBE)	Highly resistant			
Aqueous Solution	Not recommended			
Aromatic hydrocarbons; undiluted%; 80ºC	Resistant			Resistant
As an aqueous solution: acetic acid	Somewhat resistant			
As an aqueous solution: formic acid	Somewhat resistant			
As an aqueous solution:benzoic acid	Somewhat resistant			
As an aqueous solution:citric acid	Somewhat resistant			
Benceno; 100%; 20ºC	+	o	-	+
Benzaldehido, acuoso; 0,3%; 20ºC	puro o	+	-	o
Benzaldehyde	Unchanged			
Benzene	-	-		-
Benzene	Unchanged			
Benzene, C6H6; undiluted%; 25ºC	Resistant			Resistant
Benzene, C6H6; undiluted%; 60ºC	Resistant			Resistant
Benzene, toluene	Highly resistant			
Benzoico ácido; jede%; 40ºC		+	+	o
Beverages	Highly resistant			
Biodiesel	Somewhat resistant			
Bórax, acuoso; diluido%; 40ºC	o	+		+
Boric acid	Δ	O		O
Bórico ácido, acuoso; diluido%; 40ºC	o	+	+	+
Boro; 50%; 40ºC	o			
Bromhídrico ácido, acuso; 10%; 40ºC	-	+	+	
Bromine	Strong Attack			
Bromo, líquido; 100%; 20ºC		-	-	o
Butandiol; 10%; 20ºC	puro +	+		
Butanol	-	-		-
Butanol; 100%; 20ºC		+		
Butílico alcohol; 100%; 20ºC		+	-	
Butyl Acetate	Unchanged			
Calcium carbonate	O	O		-
Calcium chloride	O	O		O
Calcium chloride, CaCl2 in alcohol; 20%; 25ºC	Dissolves			Non resistant
Calcium hydroxide	X	O		O
Calcium hypochlorite, Ca(ClO)2; %; ºC	Non resistant			

Chemical name	PA6	PP	PE	PA 12
Carbon dioxide, CO2; undiluted%; 25ºC	Resistant			Resistant
Carbon Disulfide	Unchanged			
Carbon disulphide, CS2; undiluted%; 25ºC	Resistant			Resistant
Carbon tetrachloride	-	-		-
Carbon Tetrachloride	Uncahnged			
Carbon tetrachloride, CCl4; undiluted%; 25ºC	Resistant			Partially resistant
Carbonato de magnesio; todas%; 20ºC				
Carbónico ácido; 100%; 60ºC		+	+	
Caustic Soda	See Sodium Hydroxide below.			
Caustic soda 10%	-	-		-
Chloride of Lime/Water; undiluted%; 25ºC	Non resistant			
Chlorinated drinking water	Somewhat resistant			
Chlorine	Strong Attack			
Chlorine water, Cl2/H2O; saturated%; 25ºC	Non resistant			Non resistant
Chloroacetic acid, ClCH2COOH; 10%; 25ºC	Non resistant			Non resistant
Chlorobenzene, C6H5Cl; undiluted%; 25ºC	Resistant			Non resistant
Chlorofluorocarbons, CFC's; undiluted%; 25ºC	Resistant			
Chloroform	Unchanged			
Chloroform, CHCl3; undiluted%; 25ºC	Non resistant			Non resistant
Chromic acid	X	O		X
Chromic Acid solution (405 BY MASS) (23ºC)	Not recommended			
Chromic acid, H2CrO4; 1%; 25ºC	Partially resistant			Partially resistant
Ciclohexanol; 100%; 20ºC	+	+		
Citric acid	Δ	O		Δ
Citric Acid solution (10% by mass) (23ºC)	Possibly resistant			
Citrico ácido 10%; 40ºC		+	+	
Clorato sódico, acuoso; todas%; 20ºC	10% o	+	+	
Clorhidrato de anilina, acuoso; saturado%; 20ºC				
Clorhídrico ácido, acuoso; 10%; 20ºC	20% -	+	+	o
Clorhídrico ácido; 10%; 30-40ºC				
Cloro; todas%; 20ºC	-	-	-	-
Cloruro amónico, todas; todas%; 60ºC		+	+	o
Cloruro de aluminio, acuoso; diluido%; 40ºC		+	+	+
Cloruro de calcio, acuoso; todas%; 40ºC	+	+	+	o
Cloruro de cinc, acuoso; diluido%; 40ºC		+		+
Cloruro de cinc, acuoso; diluido%; 60ºC	10% o	+	+	o
Cloruro de cobre, acuoso; saturado%; 20ºC		+	+	
Cloruro de cobre, acuoso; todas%; 40ºC		+	+	
Cloruro de etileno; 100%; 20ºC	+	o	-	+
Cloruro de magnesio, acuoso; todas%; 20ºC	10% o	+	+	
Cloruro de niquel, acuoso; todas%; 20ºC	10% o	+	+	
Cloruro de potasio, acuoso; todas%; 20ºC	10% +	+	+	
Cloruro férrico, acuoso; 10%; 40ºC	o	+	+	+
Cloruro metilico; 100%; 20ºC	o	-		o
Cloruro metílico; 100%; 20ºC				
Concentrated battery acid	Not resistant			
Concentrated hydrochloric acid	Not resistant			
Concentrated nitric acid	Not resistant			
Concentrated sulfuric acid	Not resistant			
Concentrated sulfuric acid	Solvents			
Cooking oils	Highly resistant			
Cresol	Dissolves			
Cresol, acuoso; 90%; 20ºC	puro -	+	-	-
Crude Oil; as available%; 25ºC	Resistant			Resistant
cyanide, NaCN; 10%; 25ºC	Resistant			
Cyclohexane	-	-		-
Cyclohexanone	Unchanged			
Decalin	Unchanged			
Dehidracetato acetálico; 100%; 20ºC	40% º		+	+
Detergent	O	O		-
Detergent solutions; undiluted%; 25ºC	Resistant			Resistant
Dichlorethylene	Temporary loss of stiffness			
Dichlormethane	Temporary loss of stiffness			
Dicromato potásico, acuoso; 40%; 20ºC		+		
Diethyl ether (23ºC)	Possibly resistant			
Diethylene glycol, (HOCH2CH2)2O; undiluted%; 25ºC	Resistant			

Chemical name	PA6	PP	PE	PA 12
Dimethyl ether, CH3OCH3; undiluted%; 25ºC	Resistant			
Dimethylformamide	Strong Attack			
Disolución de jabón, acuoso; concentrado%; 20ºC	o	+		
Drinking water	Highly resistant			
Éster etílico del ácido acrílico/; %; ºC				
Esters	Excellent resistance			
Eter etílico; 100%; 20ºC	30% +	o		
Ethanol(23ºC)	Possibly resistant			
Ether (Diethyl)	Unchanged			
Ether, C2H5OC2H5; undiluted%; 25ºC	Resistant			Resistant
Ethers	Excellent resistance			
Ethyl Acetate	Unchanged			
Ethyl acetate, CH3COOC2H5; undiluted%; 25ºC	Resistant			Resistant
Ethyl alcohol, C2H5OH; 40%; 25ºC	Resistant			Resistant
Ethylene glycol, HOC2H4OH; undiluted%; 25ºC	Resistant			Resistant
Etílico alcohol, acuoso; 10%; 20ºC	o	+		
Fatty acids, R-COOH; 5%; 25ºC	Resistant			Resistant
Ferricianuro de potasio, acuoso; todas%; 60ºC		+	o	
Flúor; 50%; 40ºC	-			
Fluorine, F2; undiluted%; 25ºC	Non resistant			Non resistant
Fluoronated Alcohols	Severe attack			
Fluorosilicic acid, H2SiF6; 30%; 25ºC	Non resistant			
Formaldehído, acuoso; diluido%; 40ºC	puro +	+	+	o
Formaldehyde, HCHO aqueous; 30%; 25ºC	Partially resistant			Partially resistant
Formaldetryde	Possible attack			
Formalin	-	-		-
Formic acid	X	O		X
Formic Acid (Conc)	Dissolves			
Formic Acid (Dilute)	Partially disolves			
Formic acid 90%	Solvents			
Formic acid, HCOOH; 2%; 25ºC	Partially resistant			Partially resistant
Fórmico ácido, acuoso; 100%; 20ºC	10% o	+		-
Fosfórico ácido, acuoso; diluido%; 20ºC	10% -	+	+	o
Fosgeno, liquido; 100%; 20ºC				
Freon12	-	-		-
Fuels (Otto, diesel)	Highly resistant			
gamma-Butyrolactone	Strong Attack			
Gases de escape con ácido carbónico; todas%; 60ºC		+		
Gases de escape con óxido de carbono; todas%; 60ºC		+		
Gasolina; 100%; 20ºC	+	o	-	+
Gasoline	Unchanged			
Glucosa, acuoso; todas%; 20ºC		+	+	
Glycerine, CHOH(CH2OH)2; undiluted%; 25ºC	Resistant			Resistant
Glycol	-	-		O
Grease	No effect			
Greases	Highly resistant			
Halogens	Not resistant			
Heptane	No effect			
Hexafluoroisopropanol (HFIP)	Solvents			
Hexane	No effect			
Hidrofluosilicico ácido; 30%; 20ºC			-	
Hidrógeno; 100%; 60ºC	+		+	+
Honey	No effect			
Hydraulic Oils; %; 80ºC	Resistant			
Hydraulic Oils; as available%; 25ºC	Resistant			Resistant
Hydrobromic Acid 100%	Not recommended			
Hydrobromic Acid 20%	Severe effect, not recommended			
Hydrobromic Acid 37%	Not recommended			
Hydrobromic acid, HBr; 10%; 25ºC	Non resistant			
Hydrocarbons	Resistant.			
Hydrochloric Acid (Dilute)	Partially Dissolves			
Hydrochloric acid 10%	X	O		X
Hydrocloric Acid (36% by mass) (23ºC)	Not recommended			
Hydrocloric acid, HCl; 1%; 25ºC	Partially resistant			
Hydrocloric acid, HCl; 10%; 25ºC	Non resistant			

Chemical name	PA6	PP	PE	PA 12
Hydrocymic Acid	No effect			
Hydrofluoric acid 10%	X	O		-
Hydrofluoric acid 50%	X	Δ		-
Hydrofluoric Acid 75%	Severe effect Not recommended			
Hydrofluoric acid, HF; 5%; 25ºC	Non resistant			
Hydrofluoric acid, HF; 5%; 60ºC	Non resistant			
Hydrofluoric acid, HF; 50%; 25ºC	Non resistant			
Hydrofluosilisic Acid 2%	Severe effect Not recommended			
Hydrogen chloride, (gas), HCl; undiluted%; 25ºC	Non resistant			
Hydrogen peroxide	Δ	O		Δ
Hydrogen peroxide	Not resistant			
Hydrogen Peroxide 10%	Severe effect Not recommended			
Hydrogen Peroxide 30%	Severe effect Not recommended			
Hydrogen peroxide, H2O2; 1%; 25ºC	Non resistant			Partially resistant
Hydrogen sulfide (gas)	O	O		O
Hydrogen Sulfide dry	Severe effect Not recommended			
Hydrogen sulfide,	Severe effect			
Hydrogen sulphide (aq.), H2S; 10%; 25ºC	Resistant			Resistant
Hydrogen, H2; undiluted%; 25ºC	Resistant			Resistant
Hydrolic oils	No effect			
Hydrolic oils (Synthetic)	No effect			
Hypo-chlorite	Not resistant			
In the solid state: benzoic acid	Highly resistant			
In the solid state: citric acid	Highly resistant			
Ink	No effect			
Insulating Oil	Possibly resistant			
Iodine	Severe effect			
Iodoform	no effect			
Iron(III)-chloride, FeCl3; 10%; 25ºC	Partially resistant			
Iron(III)-chloride, FeCl3; 5%; 25ºC	Partially resistant			
ISO 1817 Liquid 1 E5 (60ºC)	Possibly resistant			
ISO 1817 Liquid 2 M15E4 (60ºC)	Possibly resistant			
ISO 1817 Liquid 3 M3E7 (60ºC)	Possibly resistant			
ISO 1817 Liquid 4 M15 (60ºC)	Possibly resistant			
Iso-Octane (23ºC)	Possibly resistant			
Isopropyl alcohol (23ºC)	Possibly resistant			
Isopropyl alcohol, (CH3)2CHOH; undiluted%; 25ºC	Resistant			Partially resistant
Isopropyl ether, (CH3)2CH2O; undiluted%; 25ºC	Resistant			
Jet fuel	no effect			
Kerosene	No effect			
Kerosene; as available%; 25ºC	Resistant			Resistant
Ketones (aliphatic), RCOR; undiluted%; 25ºC	Partially resistant			
Ketores	No effect			
Lactic Acid	Moderate effect			
Lactic Acid (10% by mass) (23ºC)	Possibly resistant			
Lactic acid, CH3CHOHCOOH; 10%; 25ºC	Resistant			Resistant
Láctico ácido, acuoso; 50%; 20ºC	puro +	+	o	o
Laquer Thinners	No effect			
Laquers	No effect			
Lard	No effect			
Latex	No effect			
Lead Acetate	No effect			
Lejía blanqueada; 12,5 Cl%; 20ºC	-	o		o
Lejia de sosa, acuoso; 10%; 20ºC	+	+	+	+
Lubricants	No effect			
Lubricating greases; as available%; 25ºC	Resistant			
Maelic acid	No effect			
Magnesium chloride	O	O		-
Magnesium Chloride	No effect			
Magnesium Hydroxide	No effect			
Magnesium Nitrate	No effect			
Magnesium sulfate	O	O		-
Magnesium Sulfate	No effect			
Maleic acid, HOOCCH2=CH2COOH; 10%; 25ºC	Partially resistant			

Chemical name	PA6	PP	PE	PA 12
Malic acid, HOOC CH(OH)CH2COOH; saturated%; 25ºC	Resistant			
Marina agua; 40ºC	+	+	+	o
Mayonnaise	No effect			
m-Chloraphenol	Dissolves			
Mercuric Chloride	No effect			
Mercurio; %; 60ºC	+	+	+	+
Mercury	No effect			
Mercury, Hg; undiluted%; 25ºC	Resistant			Resistant
Metallic Salts	Strong attack			
Methanol	-	-		Δ
Methanol(23ºC)	Possibly resistant			
Methyl - Alcohol 10% (Methanol)	No effect			
Methyl Acetate	Unchanged			
Methyl acetate, CH3COOCH3; undiluted%; 25ºC	Resistant			Resistant
Methyl acohol, CH3OH; 50%; 25ºC	Resistant			Resistant
Methyl bromide, CH3Br; undiluted%; 25ºC	Partially resistant			Partially resistant
Methyl Chloride	No effect			
Methyl chloride, CH3Cl; undiluted%; 25ºC	Partially resistant			Partially resistant
Methyl ethyl ketone	-	-		-
Methyl ethyl ketone, CH3COC2H5; 20%; 25ºC	Resistant			
Methyl ethyl ketone, CH3COC2H5; undiluted%; 25ºC	Resistant			
Methyl Isobutyl Ketone	No effect			
Methylene chloride, CH2Cl2; undiluted%; 25ºC	Non resistant			
Methylethyl Ketone	No effect			
Metilico alcohol; 100%; 20ºC		+	+	
Milk	No effect			
Milk; available%; 25ºC	Resistant			Resistant
Mineral Acids	Strong attack			
Mineral Oil	Unchanged			
Mineral oils; available%; 25ºC	Resistant			Resistant
Molases	No effect			
Monochlorbenzene	Unchanged			
Motor oils	Highly resistant			
Motor oils	Highly resistant			
Mustard	No effect			
Naphtha; available%; 25ºC	Resistant			Resistant
Naphthalene	-	-		-
Naphthalene, C10H8; undiluted%; 25ºC	Resistant			Resistant
Naptha	No effect			
Natural gas	Highly resistant			
n-Hexane (23ºC)	Possibly resistant			
Nickel Chloride	No effect			
Nickel Sulfate	No effect			
Nitrato amónico, acuoso; todas%; 40ºC		+	+	
Nitrato amónico, acuoso; todas%; 40ºC		+	+	
Nitrato de calcio, acuoso; 50%; 40ºC		+	+	
Nitrato potásico; todas%; 20ºC	10% +	+	+	
Nitric Acid (40% by mass) (23ºC)	Not recommended			
Nitric acid 10%	X	O		X
Nitric acid 50%	X	-		X
Nitric Acid Concentrated	Severe effect Not recommended, Cletus said 2002, plugs dissolved			
Nitric Acid, 10%, 20%,50% solutions	Severe effect, not recommended			
Nitric acid, HNO3; 1%; 25ºC	Partially resistant			Non resistant
Nitrico ácido, acuoso; 6%; 20ºC	50% -	+	+	-
Nitro Benzine	Moderate effect			
Nitrobenzene, C6H5NO2; undiluted%; 25ºC	Partially resistant			Partially resistant
Nitrogen oxides, NO/NO2; undiluted%; 25ºC	Partially resistant			
Nitroglicerina; diluido%; 20ºC				
o-Chlorophenal	Dissplves			
Oils - Aniline	Moderae effect			
Oils - Citric,clove,coconut,cod liver	No effect			
Oils - Corn	No effect			
Oleico ácido; 100%; 20ºC	+	+		

Chemical name	PA6	PP	PE	PA 12
Oleum	Not resistant			
Ordinary soap	Highly resistant			
Oxalic acid, HOOCCOOH; 10%; 25ºC	Partially resistant			Resistant
Oxálico ácido; saturado%; 20°C	10% o	+	+	
Óxido carbónico; 100%; 60ºC		+	+	
Óxido de etileno, líquido; 100%; 20°C				
Oxygen under pressure, O2; undiluted%; 25ºC	resistant			
Oxygen, O2; undiluted%; 25ºC	Resistant			Resistant
ozone	Not resistant			
Ozone as a component of air	Highly resistant			
Ozone diluted in air, O3, 20ppm; %; 25ºC	Partially resistant			
Ozone, O3; undiluted%; 25ºC	Non resistant			Non resistant
Ozono; 100%; 20°C	o	o	o	+
Paraffin oil	Highly resistant			
Paraffin oil; as available%; 25ºC	Resistant			Resistant
p-Chlorophenol	Dissolves			
Pentóxido de fósforo; 100%; 20°C		+		
Perchlorethylene	Unchanged			
Perchloro ethylene	-	-		-
Permanganato potásico, acuoso; 6%; 20°C		+	+	o
Persulfato de potasio, acuoso; diluido%; °C		+	-	+
Petrol, normal, DIN 53521; as available%; 85ºC	Resistant			Resistant
Petróleo; %; 40°C				
Petroleum	Unchanged			
Phenol	Dissolves			
Phenol, C6H5OH; undiluted%; 40ºC	Dissolves			Non resistant
Phosphoric acid	X	O		Δ
Phosphoric Acid (Conc)	Dissolves			
Phosphoric acid, H3PO4; 1%; 25ºC	Partially resistant			
Phosphoric acid, H3PO4; 10%; 25ºC	Non resistant			Partially resistant
Phosphoric acid, H3PO4; 50%; 25ºC	Non resistant			Non resistant
Phthalic acid, C6H4(COOH)2; saturated%; 25ºC	Partially resistant			
pintura a base de resinas acrílicas; 100%; 20°C	30% -		-	-
Potasa cáustica; 50%; 20°C	50% +	+		
Potasa, acuoso; saturado%; 40°C				+
Potassium bromide, KBr; 10%; 25ºC	Partially resistant			Resistant
Potassium carbonate, K2CO3; 50%; 25ºC	Resistant			Resistant
Potassium chloride, KCl; 10%; 25ºC	Resistant			
Potassium dichromate, K2Cr2O7; 5%; 25ºC	Partially resistant			
Potassium hydroxide 10%	O	O		O
Potassium Hydroxide, 5%, 10%	Minimal effect, some crazing			
Potassium hydroxide, KOH; 1%; 25ºC	Resistant			Resistant
Potassium hydroxide, KOH; 10%; 25ºC	Resistant			Resistant
Potassium hydroxide, KOH; 50%; 25ºC	Partially resistant			Resistant
Potassium nitrate, KNO3; 10%; 25ºC	Resistant			Resistant
Potassium permanganate, KMnO4; 1%; 25ºC	Non resistant			
Propyl alcohol, n-C3H7OH; undiluted%; 25ºC	Resistant			
Pyridine	Unchanged			
Pyridine, C5H5N; undiluted%; 25ºC	Resistant			Resistant
Resorcinol	Dissolves			
Revelador de fotos; %; 40°C		+		
Road salt	Triggers stress cracking			
Road salt solution in contact with zinc-plated compon	Triggers stress cracking			
SAE 10W40 multigrade motor oil (130°C)	Not recommended			
SAE 10W40 multigrade motor oil (23°C)	Possibly resistant			
SAE 80/90 hypoid-gear oil (23°C)	Not recommended			
Salicylic acid, HOC6H4COOH; saturated%; 25ºC	Resistant			
Seawater	Highly resistant			
Sodium acetate	O	O		-
Sodium acetate, CH3COONa; 10%; 25ºC	Resistant			
Sodium bisulphate, NaHSO3; 5%; 25ºC				
Sodium bisulphite, NaHSO3; 10%; 25ºC	Resistant			
Sodium carbonate, Na2CO3; 10%; 25ºC	Resistant			Resistant
Sodium chloride	O	O		-
Sodium chloride, NaCl Sodium; 10%; 25ºC	Resistant			Resistant
Sodium dichromate, Na2Cr2O7; 10%; 25ºC	Resistant			
Sodium hidroxide solution (1% by mass) (23°C)	Possibly resistant			
Sodium hidroxide solution (35% by mass) (23°C)	Not recommended			
Sodium Hydroxide (1%)	Unchanged			

Chemical name	PA6	PP	PE	PA 12
Sodium Hydroxide (10%)	Minimal effect, some crazing after 30 days			
Sodium Hydroxide (5%)	Minimal effect			
Sodium hydroxide 10%	O	O		O
Sodium hydroxide solution	Somewhat resistant			
Sodium hydroxide, NaOH; 1%; 25ºC	Resistant			Resistant
Sodium hydroxide, NaOH; 10%; 25ºC	Resistant			Resistant
Sodium hydroxide, NaOH; 10%; 80ºC	Non resistant			
Sodium hypochlorite, (12.5% act. Cl), NaOCl; 10%; 25ºC	Non resistant			
Sodium hypochlorite, (12.5% act. Cl), NaOCl; 5%; 25ºC	Partially resistant			Partially resistant
Sodium nitrate	O	O		O
Sodium nitrite, NaNO2; 10%; 25ºC	Resistant			
Sodium phosphate, Na3PO4; 10%; 25ºC	Resistant			Resistant
Sodium slicate, Na2SiO3; 10%; 25ºC	Resistant			
Sodium sulphate, Na2SO4; 10%; 25ºC	Resistant			Resistant
Sodium sulphide, Na2S; 5%; 25ºC	Resistant			Resistant
Sodium sulphite, Na2SO3; 5%; 25ºC	Resistant			Resistant
Sodium thiosulphate, Na2S2O3; 10%; 25ºC	Resistant			Resistant
Solución de sal común; todas%; 40°C		+		+
Solvents	severe attack			
Standard fuel with alcohol (pref. ISO 1817 Liquid 4) (23	Possibly resistant			
Standard fuel without alcohol (pref. ISO 1817 Liquid c)	Possibly resistant			
Steam, H2O; undiluted%; >100ºC	Partially resistant			
Stearic acid, C17H35COOH; undiluted%; 25ºC	Resistant			Resistant
Styrene, C6H5CH=CH2; undiluted%; 80ºC	Resistant			Resistant
Sulfato de aluminio, acuoso; diluido%; 40°C		+	+	
Sulfato de cinc, acuoso; diluido%; 60°C		+	+	
Sulfato de hidroxilamina, acuoso; 12%; 35°C				
Sulfato de niquel, acuoso; todas%; 20°C	10% o	+	+	
Sulfiric Acid (Dilute)	Partially Dissolves			
Sulfur dioxide	O	O		-
Sulfuric Acid (38 % by mass) (23°C)	Not recommended			
Sulfuric Acid (5 % by mass) (23°C)	Not recommended			
Sulfuric Acid (Conc)	Dissolves			
Sulfuric acid 10%	X	O		Δ
Sulfuric acid 50%	X	-		X
Sulfúrico ácido; 10%; 20°C	40 - 80 % -	+	+	o
Sulfuro de carbono; 100%; 20°C	o	+	-	+
Sulfuro sódico, acuoso; diluido%; 40°C		+		
Sulphur dioxide, dry, SO2; undiluted%; 25ºC	Partially resistant			
Sulphur dioxide, wet, SO2; undiluted%; 25ºC	Partially resistant			
Sulphur, S; undiluted%; 25ºC	Resistant			Resistant
Sulphuric acid, H2SO4; 1%; ºC	Poor resistance			
Sulphuric acid, H2SO4; 10%; 25ºC	Non resistant			Non resistant
Sulphuric acid, H2SO4; 2%; 25ºC	Non resistant			Non resistant
Sulphuric acid, H2SO4; 20%; 25ºC	Non resistant			Non resistant
Sulphuric acid, H2SO4; 80%; 25ºC	Dissolves			
Sulphurous acid, H2SO3; saturated%; 25ºC	Partially resistant			
Surfactants	Highly resistant			
Tartaric acid, HOOC(CHOH)2COOH; 5%; 25ºC	Resistant			Resistant
Technical greases and lubricants	Highly resistant			
Tetrachloroethylene, Cl2CCCl2; undiluted%; 25ºC	Partially resistant			
Tetracloruro de carbono; 100%; 20°C	+	o		o
Tetrahydrofuran	Unchanged			
Tetrahydrofuran, C4H8O; undiluted%; 25ºC	Resistant			Resistant
Tetralin	Unchanged			
THF	Highly resistant			
Toluene	-	-		-
Toluene	Unchanged			
Toluene	Highly resistant			
Toluene (23°C)	Possibly resistant			
Toluene, C6H5CH3; undiluted%; 25ºC	Resistant			Resistant
Tolueno; 100%; 20°C	+	o	-	+
Traces of ozone, chlorine or nitrous gases	Somewhat resistant			
Transmission oils	Somewhat resistant			
Trichlorethylene	Temporary loss of stiffness			
Trichloroacetic acid, CCl3COOH; 50%; 25ºC	Non resistant			

Chemical name	PA6	PP	PE	PA 12
Trichloroethylene, ClCHCCl2; undiluted%; 25ºC	Partially resistant			Partially resistant
Trichlorofluoromethane, R-11, CCl3F; undiluted%; 25ºC	Resistant			
Tricloroetileno; 100%; 20ºC	o	o	-	
Turpentine	Unchanged			
Turpentine Oil; as available%; 25ºC	Resistant			Resistant
Urea	-	-		-
Urea solution	Somewhat resistant			
Urea, acuosa; 10%; 40ºC	20% +	+		
Urea, Co(NH2)2; 5%; 25ºC	Resistant			Resistant
Vinegar; as available%; 25ºC	Non resistant			Resistant
Washing solutions	Highly resistant			
Water absorption rate	Δ	O		O
Xileno; 100%; 20ºC	+	o		+
Xylene	-	-		-
Xylene	Unchanged			
Xylenols	Dissolves			
Zinc chloride, ZnCl2; 10%; 25ºC	Partially resistant			Resistant
Zinc sulfate	O	O		O