Simrit Chemical Compatibility Guide

Chemical Medium	ACM	AEM	AU	CR	EPDM	ETP	FFKM	FKM	FVMQ	HNBR	IIR	NBR	NR	PTFE	SBR	TFE/P	VMQ
Hyjet IV and IVA	4	0	4	4	1	4	4	4	4	4	2	4	4	0	4	0	4
Hyjet S4	0	0	0	4	1	1	1	4	0	4	0	4	0	0	0	2	0
Hyjet W	0	0	0	4	1	3	1	4	0	4	0	4	0	0	0	2	0
Hypochlorous Acid	4	0	0	4	2	1	1	1	0	4	2	4	2	0	4	0	0
Indole	4	0	3	4	0	1	1	1	2	0	4	0	4	0	4	0	0
Industron FF44	1	0	2	2	4	1	1	1	1	1	4	1	4	0	4	1	4
Industron FF48	1	0	2	2	4	1	1	1	1	1	4	1	4	0	4	1	4
Industron FF53	1	0	2	2	4	1	1	1	1	1	4	1	4	0	4	1	4
Industron FF80	1	0	2	2	4	1	1	1	1	1	4	1	4	0	4	1	4
Ink	1	0	1	1	1	0	1	2	1	2	1	1	1	1	1	0	1
Insulin	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Iodic Acid	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Iodine	0	1	4	4	2	1	1	1	1	1	2	2	4	1	2	1	3
Iodine Pentafluoride	4	0	4	4	4	3	2	4	4	4	4	4	4	0	4	4	4
Iodine, Tincture	0	0	4	2	1	0	1	1	2	1	1	1	1	1	1	0	2
Iodoform	4	0	3	4	1	2	1	3	2	0	1	0	4	1	4	0	0
Iron(III) Chloride	0	0	0	1	1	0	1	1	0	1	1	1	1	1	1	0	0
Isoamyl Acetate	4	0	4	1	1	3	1	4	1	3	1	3	1	0	1	0	2
Isoamyl Butyrate	4	0	4	1	1	2	1	4	1	3	1	3	1	0	1	0	2
Isoamyl Valerate	4	0	4	1	1	1	1	1	1	3	1	3	1	0	1	0	2
Isoboreol	4	0	3	4	0	1	1	1	2	0	4	0	4	0	4	0	0
Isobutane	1	0	1	2	4	1	1	1	1	1	4	1	4	0	4	0	2
Isobutanol	4	0	4	1	1	0	1	1	2	2	1	2	1	1	1	0	1
Isobutyl Acetate	4	0	4	1	1	3	1	4	1	3	1	3	1	0	1	0	2
Isobutyl Alcohol	4	1	4	1	1	1	1	1	2	2	1	2	1	1	2	1	1
Isobutyl Chloride	0	0	0	4	4	1	1	2	0	4	0	4	0	0	0	4	0
Isobutyl Ether	0	0	0	3	4	3	1	4	0	2	0	2	0	0	0	4	0
Isobutyl Methyl Ketone	4	0	4	1	1	3	1	4	1	3	1	3	1	0	1	0	2
Isobutyl N-Butyrate	4	0	0	4	1	1	1	1	1	4	1	4	4	0	4	1	0
Isobutyl Phosphate	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Isobutylene	4	0	3	4	0	1	1	1	2	0	4	0	4	0	4	0	0
Isobutyraldehyde	0	0	0	3	2	4	2	4	0	2	0	3	0	0	0	4	0
Isobutyric acid	0	0	0	4	2	2	1	3	0	1	0	2	0	0	0	3	2
Isocrotyl chloride	4	0	3	4	0	1	1	1	2	0	4	0	4	0	4	0	0
Isodecanol	1	0	1	2	4	1	1	2	1	1	4	1	4	0	4	0	2
Isododecane	4	0	0	2	4	1	1	1	1	1	4	1	4	0	4	1	4

1] Little or no effect (Volume swell <10%) 2] Possible loss of physical properties (Volume swell 10–20%)

3] Noticeable change (Volume swell 20–40%) 4] Not suitable for service 0] Insufficient info

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Chemical Medium	ACM	AEM	AU	CR	EPDM	ETP	FFKM	FKM	FVMQ	HNBR	IIR	NBR	NR	PTFE	SBR	TFE/P	VMQ
Isoeugenol	1	0	1	2	4	1	1	2	1	1	4	1	4	0	4	0	2
Isooctane	1	1	2	2	4	1	1	1	1	1	4	1	4	1	4	2	4
Isopentane	1	0	1	2	4	1	1	1	1	1	4	1	4	0	4	0	2
Isophorone	4	0	2	4	1	3	1	4	4	4	1	4	4	1	4	2	4
Isopropanol	4	1	4	2	1	1	1	1	2	2	1	2	1	1	1	1	1
Isopropyl Acetate	4	4	4	4	2	2	1	4	4	4	2	4	4	1	4	4	4
Isopropyl Chloride	4	0	4	4	4	1	1	1	2	4	4	4	4	1	4	4	4
Isopropyl Ether	3	4	4	4	4	3	1	4	3	2	4	2	4	1	4	4	4
Isopropylacetone	4	0	4	1	1	2	1	3	1	3	1	3	1	0	1	0	2
Isopropylamine	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Jet Fuel A	4	0	3	4	4	1	1	1	2	2	4	2	4	0	4	0	0
JP-10	4	0	3	4	4	1	1	1	1	3	4	3	4	0	4	0	4
JP-3	2	0	2	4	4	1	1	1	1	1	4	1	4	1	4	2	4
JP-4	2	0	2	4	4	1	1	1	2	1	4	1	4	1	4	2	4
JP-5	2	0	2	4	4	1	1	1	2	1	4	1	4	1	4	2	4
JP-6	2	0	2	4	4	1	1	1	2	1	4	1	4	1	4	2	4
JP-8	1	0	1	3	4	1	1	1	2	1	4	4	4	0	4	2	4
JP-9	4	0	3	4	4	1	1	1	2	3	4	3	4	0	4	0	4
JP-9 -11	4	0	4	4	4	1	1	1	2	4	4	4	4	0	4	0	4
JPX	0	0	0	2	4	3	1	4	0	1	0	1	0	0	0	2	0
Kel-F Liquids	0	0	0	2	1	1	3	3	2	1	1	1	0	0	1	3	1
Kerosene	1	3	1	4	4	1	1	1	1	1	4	1	4	1	4	2	4
Keystone #87HX-Grease	1	0	1	4	4	1	1	1	1	1	4	1	4	0	4	1	4
Lacquer Solvents	4	4	4	4	4	2	1	4	4	4	4	4	4	1	4	4	4
Lacquers	4	0	4	4	4	2	1	4	4	4	4	4	4	1	4	4	4
Lactams	0	0	0	4	2	1	1	2	4	4	4	4	4	1	4	3	0
Lactic Acid, Cold	4	0	0	1	1	1	1	1	1	1	1	1	1	0	1	0	1
Lactic Acid, Hot	4	0	0	4	4	1	1	1	2	4	4	4	4	0	4	0	2
Lactones	4	0	4	4	2	4	4	4	4	4	2	4	4	0	4	0	2
Lard	1	1	1	2	2	1	1	1	1	1	2	1	4	1	4	1	2
Lauric Acid	1	0	1	2	4	1	1	1	1	1	4	1	4	0	4	0	2
Lauryl Alcohol	0	0	0	1	2	0	1	1	0	1	2	1	2	1	2	0	0
Lavender Oil	2	0	0	4	4	1	1	1	2	2	0	2	0	1	0	1	4
LB 135	0	0	0	1	1	1	1	1	0	1	0	1	0	0	0	1	0
Lead Acetate	4	0	4	2	1	2	1	4	4	2	1	2	4	1	1	4	4
Lead Arsenate	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2

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Lead Bromide	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Lead Carbonate	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Lead Chloride	4	0	4	1	1	1	1	1	1	3	1	3	1	0	1	0	2
Lead Chromate	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Lead Dioxide	4	0	4	1	1	1	1	2	1	3	1	3	1	0	1	0	2
Lead Linoleate	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Lead Nitrate	0	0	4	1	1	1	1	1	1	1	1	1	1	1	1	2	2
Lead Oxide	4	0	4	1	1	1	1	2	1	3	1	1	1	0	1	1	2
Lead Sulfamate	4	0	0	1	1	1	1	1	1	2	1	2	2	0	2	0	2
Lehigh X1169	1	0	1	2	4	1	1	1	1	1	4	1	4	0	4	1	4
Lehigh X1170	1	0	1	2	4	1	1	1	1	1	4	1	4	0	4	1	4
Lemon Juice, Undiluted	0	0	0	2	0	0	1	0	0	1	0	1	1	1	1	0	1
Light Grease	0	0	0	4	4	1	1	1	0	1	0	1	0	0	0	1	0
Ligroin	1	0	2	2	4	1	1	1	1	1	4	1	4	0	4	2	4
Lime Bleach	0	0	0	1	1	1	1	1	1	1	0	1	0	0	0	1	2
Lime Sulfur	4	0	3	4	1	1	1	1	1	0	4	4	4	0	4	0	1
Lindol Hydraulic Fluid, Phosphate Ester Type	4	4	4	4	1	1	1	2	3	4	1	4	4	1	4	1	3
Linoleic Acid	0	0	0	2	4	1	1	2	0	2	4	2	4	1	4	1	2
Linseed Oil	1	0	2	1	3	1	1	1	1	1	2	1	2	1	2	1	1
Liquefied Petroleum Gas	3	1	1	2	4	1	1	1	3	1	4	1	4	1	4	2	3
Liquid Oxygen	4	0	4	4	4	4	2	4	4	4	4	4	4	0	4	4	4
Liquimoly	1	0	2	2	4	1	1	1	1	1	4	1	4	0	4	1	4
Liquor	1	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Lithium Bromide	4	0	1	2	1	1	1	2	1	1	1	1	1	1	1	0	1
Lithium Carbonate	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Lithium Chloride	4	0	1	2	1	1	1	1	1	1	1	1	1	1	1	0	1
Lithium Citrate	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Lithium Hydroxide	4	0	4	1	1	2	1	3	1	3	1	2	1	0	1	1	2
Lithium Hypochlorite	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Lithium Nitrate	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Lithium Nitrite	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Lithium Perchlorate	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Lithium Salicylate	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Lithopone	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2

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Lubricating Oils, Crude & Refined	0	0	0	3	4	1	1	1	0	2	0	2	0	0	0	1	0
Lubricating Oils, Diester	2	0	0	3	4	1	1	2	2	2	4	2	4	0	4	2	4
Lubricating Oils, Petroleum	1	1	2	2	4	1	1	1	1	1	4	1	4	1	4	1	4
Lubricating Oils, SAE 10, 20, 30, 40, 50	1	0	2	2	4	1	1	1	1	1	4	1	4	0	4	1	4
Lubricating Oils, Synthetic Base	4	0	3	4	0	1	1	1	2	0	4	0	4	0	4	0	0
Lye	4	0	4	2	1	1	1	2	2	2	1	2	1	1	2	1	2
Machine Oil, Mineral	1	0	1	2	4	0	1	1	1	1	4	1	4	1	4	0	2
Magnesium Chloride	4	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Magnesium Hydroxide	4	0	4	2	1	1	1	1	0	2	1	2	2	0	2	1	0
Magnesium Salts	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
Magnesium Sulfate	4	0	0	2	1	1	1	1	1	1	1	1	2	1	1	0	1
Magnesium Sulfite	4	0	0	1	1	1	1	2	1	1	1	1	2	0	2	0	1
Maize Oil	0	0	0	2	4	0	1	1	0	1	4	1	4	1	4	0	0
Malathion	0	0	4	0	4	1	1	2	2	2	4	2	4	0	4	0	4
Maleic Acid	4	1	0	4	4	1	1	1	0	4	4	4	4	1	4	1	4
Maleic Anhydride	4	0	0	4	4	2	1	4	0	4	2	4	4	0	4	1	0
Maleic Hydrazide	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Malic Acid	4	0	0	2	4	1	1	1	1	1	4	1	3	0	2	1	2
Mandelic Acid	4	0	4	1	1	3	1	4	1	3	1	3	1	0	1	0	2
Manganese Acetate	4	0	4	1	1	2	1	4	1	3	1	3	1	0	1	0	2
Manganese Carbonate	4	0	4	1	1	1	1	2	1	3	1	3	1	0	1	0	2
Manganese Chloride	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Manganese Dioxide	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Manganese Gluconate	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Manganese Hypophosphite	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Manganese Linoleate	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Manganese Phosphate	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Manganese Sulfate	4	0	4	1	1	1	1	1	1	3	1	3	1	0	1	0	2
Manganous Chloride	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Manganous Phosphate	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Manganous Sulfate	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Mannitol	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Margarine	1	0	1	2	4	0	1	1	1	1	4	1	4	1	4	0	1
Marsh Gas	1	0	0	1	2	0	1	1	1	1	2	1	2	1	2	0	1

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MCS 312	4	0	0	4	4	1	1	1	1	4	4	4	4	0	4	0	1
MCS 352	4	0	4	4	1	4	4	4	3	4	2	4	4	0	4	0	3
MCS 463	4	0	4	4	1	4	4	4	3	4	2	4	4	0	4	0	3
MEA (Ethanolamine)	0	0	0	0	2	3	1	4	4	0	0	4	0	0	0	0	2
Menthol	0	0	0	4	4	0	1	2	0	4	4	4	4	1	4	0	0
Mercaptan	1	0	1	2	4	2	1	3	1	1	4	1	4	0	4	0	2
Mercaptobenzothiazole	4	0	3	4	1	1	1	1	2	3	4	3	4	0	4	1	0
Mercuric Acetate	4	0	4	1	1	2	1	4	1	3	1	3	1	0	1	0	2
Mercuric Chloride	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mercuric Cyanide	4	0	4	1	1	1	1	2	1	3	1	3	1	0	1	0	2
Mercuric Iodide	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Mercuric Nitrate	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Mercuric Sulfate	4	0	4	1	1	1	1	2	1	3	1	3	1	0	1	0	2
Mercuric Sulfite	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Mercurous Nitrate, Hydrated	4	0	4	1	1	1	1	2	1	3	1	3	1	0	1	0	2
Mercury	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Mercury Chloride	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Mercury Fulminate	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Mercury Salts	4	0	4	2	1	1	1	1	1	1	1	1	1	1	1	0	1
Mercury Vapor	0	0	0	1	1	1	1	1	0	1	1	1	1	0	1	1	0
Mesityl Oxide	4	0	4	4	2	3	1	4	4	4	2	4	4	1	4	4	4
Metaldehyde	4	0	4	1	1	3	1	4	1	3	1	3	1	0	1	0	2
Methacrylic Acid	4	0	4	1	2	4	1	3	4	3	1	3	1	0	1	2	4
Methallyl Chloride	4	0	3	4	0	1	1	1	2	0	4	0	4	0	4	0	0
Methane	1	1	3	2	4	1	1	1	2	1	2	1	2	1	2	2	4
Methanol	4	1	4	1	1	1	1	4	1	2	1	1	1	1	1	1	1
Methoxy Butanol	0	0	0	2	2	0	1	1	0	1	2	1	4	1	4	0	0
Methoxyethanol	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Methyl 2-Pyrrolidone	0	0	0	0	2	1	1	2	2	0	0	0	0	0	0	0	2
Methyl Abietate	4	0	3	4	0	1	1	2	2	0	4	0	4	0	4	0	0
Methyl Acetate	4	4	4	2	2	2	1	4	4	4	2	4	4	1	4	4	4
Methyl Acetoacetate	4	0	4	4	2	2	1	4	4	4	2	4	0	0	0	4	2
Methyl Acetophenone	4	0	3	4	0	2	1	4	2	0	4	0	4	0	4	0	0
Methyl Acrylate	4	4	4	4	2	3	1	4	4	4	4	4	4	1	4	4	4
Methyl Acrylic Acid	4	0	4	2	2	1	1	3	4	4	2	4	4	1	4	0	4
Methyl Amylketone	4	0	4	1	1	2	1	4	1	3	1	3	1	0	1	0	2

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Methyl Anthranilate	4	0	3	4	0	1	1	2	2	0	4	0	4	0	4	0	0
Methyl Benzoate	4	0	4	4	4	2	1	1	1	4	4	4	4	0	4	2	4
Methyl Bromide	3	0	4	4	4	1	1	1	1	2	4	2	4	1	4	2	4
Methyl Butanethiol	0	0	0	0	4	1	1	1	0	0	0	4	0	0	0	1	4
Methyl Butanol	4	0	4	2	1	1	1	1	1	2	1	2	1	1	2	1	4
Methyl Butyl Ketone	4	4	4	4	1	2	1	4	4	4	1	4	4	1	4	4	4
Methyl Butyrate Cellosolve	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Methyl Butyrate Chloride	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Methyl Carbonate	4	0	4	4	4	1	1	1	2	4	4	4	4	0	4	2	4
Methyl Cellosolve	4	4	4	3	2	2	1	4	4	3	2	3	4	1	4	1	4
Methyl Cellulose	4	0	2	2	2	2	1	4	4	2	2	2	2	0	2	1	2
Methyl Chloride	4	4	2	4	3	1	1	2	2	4	4	4	4	1	4	4	4
Methyl Chloroacetate	4	0	4	1	1	2	1	4	1	3	1	3	1	0	1	0	2
Methyl Chloroform	0	0	0	4	4	1	1	2	2	4	0	4	0	0	0	4	4
Methyl Chloroformate	4	0	4	4	4	1	1	2	2	4	4	4	4	0	4	1	4
Methyl Cyanide	4	0	4	2	1	1	1	2	1	3	1	3	1	0	1	1	2
Methyl Cyclohexanone	1	0	1	2	4	3	1	4	1	1	4	1	4	0	4	0	2
Methyl Dichloride	4	0	3	4	0	1	1	1	2	0	4	0	4	0	4	0	0
Methyl Ether	4	0	0	3	2	2	1	4	1	1	4	1	4	1	4	4	1
Methyl Ethyl Ketone	4	4	4	4	1	2	1	4	4	4	1	4	4	1	4	4	4
Methyl Ethyl Ketone Peroxide	4	0	4	4	4	4	1	4	4	4	4	4	4	0	4	0	2
Methyl Ethyl Oleate	4	0	3	4	0	1	1	1	2	0	4	0	4	0	4	0	0
Methyl Formate	0	0	0	2	2	2	1	4	0	4	2	4	4	0	4	4	0
Methyl Hexyl Ketone	4	0	4	1	1	2	1	4	1	3	1	3	1	0	1	0	2
Methyl Iodide	1	0	1	2	4	1	1	1	1	1	4	1	4	0	4	0	2
Methyl Isobutyl Ketone	4	4	4	4	3	2	1	4	4	4	3	4	4	1	4	4	4
Methyl Isocyanate	4	0	4	1	1	2	1	4	1	3	1	3	1	0	1	0	2
Methyl Isopropyl Ketone	4	0	4	4	2	2	1	4	4	4	2	4	4	0	4	0	4
Methyl Isovalerate	4	0	3	4	0	1	1	1	2	0	4	0	4	0	4	0	0
Methyl Lactate	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Methyl Mercaptan	0	0	0	0	1	1	1	3	0	0	1	0	0	1	0	0	0
Methyl Methacrylate	4	4	4	4	4	2	1	4	4	4	4	4	4	1	4	4	4
Methyl Oleate	0	0	0	4	2	1	1	2	2	4	2	4	4	1	4	1	0
Methyl Pentadiene	4	0	3	4	0	1	1	1	2	0	4	0	4	0	4	0	0
Methyl Phenylacetate	4	0	3	4	0	2	1	4	2	0	4	0	4	0	4	0	0
Methyl Propyl Salicylate	0	0	0	4	2	0	0	2	0	0	2	4	4	1	0	2	0

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Simrit Chemical Compatibility Guide

Chemical Medium	ACM	AEM	AU	CR	EPDM	ETP	FFKM	FKM	FVMQ	HNBR	IIR	NBR	NR	PTFE	SBR	TFE/P	VMQ
Methyl Salicylate	0	0	0	4	2	1	1	2	0	4	2	4	3	0	3	0	0
Methyl T-Butyl Ether	0	0	0	3	3	2	1	4	0	3	0	3	0	0	0	2	0
Methyl Valerate	4	0	3	4	0	1	1	1	2	0	4	0	4	0	4	0	0
Methylamine	4	0	4	1	1	1	1	4	1	4	1	4	2	1	2	0	2
Methylamyl Acetate	4	0	4	1	1	2	1	3	1	3	1	3	1	0	1	0	2
Methylcyclopentane	4	0	4	4	4	2	1	1	2	4	4	4	4	0	4	2	4
Methylene Bromide	4	0	3	4	4	2	1	3	1	0	4	2	4	0	4	0	0
Methylene Chloride	4	4	4	4	4	2	1	3	2	4	4	4	4	1	4	2	4
Methylene Di-P-Phenylene Isocyanate	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Methylene Iodide	4	0	3	4	0	1	1	1	2	0	4	0	4	0	4	0	0
Methylglycerol	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Methylisobutyl Carbinol	1	0	1	2	4	1	1	1	1	1	4	1	4	0	4	0	2
Methylpyrrolidine	4	0	3	4	0	1	1	1	2	0	4	0	4	0	4	0	0
Methylpyrrolidone	4	0	3	4	0	1	1	1	2	0	4	0	4	0	4	0	0
Methylsulfuric Acid	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
MIL-A-6091	4	0	4	1	1	1	1	1	1	2	1	2	1	0	1	0	1
MIL-C-4339	1	0	1	4	4	1	1	1	1	1	4	1	4	0	4	0	3
MIL-C-7024	2	0	1	2	4	1	1	1	1	1	4	1	4	0	4	0	4
MIL-C-8188	3	0	4	4	4	1	1	2	2	2	4	2	4	0	4	0	4
MIL-E-9500	4	0	4	1	1	1	1	1	1	1	1	1	1	0	1	0	1
MIL-F-16884	1	0	3	3	4	1	1	1	1	1	4	1	4	0	4	0	4
MIL-F-17111	1	0	3	2	4	1	1	1	2	1	4	1	4	0	4	0	4
MIL-F-25558	1	0	1	2	4	1	1	1	1	1	4	1	4	0	4	1	4
MIL-F-25656	2	0	2	4	4	1	1	1	2	1	4	1	4	0	4	0	4
MIL-F-5566	4	0	2	2	1	1	1	1	1	2	1	2	1	0	2	0	1
MIL-F-81912	4	0	3	4	4	1	1	1	2	3	4	3	4	0	4	0	4
MIL-F-82522	2	0	1	4	4	1	1	1	1	2	4	2	4	0	4	1	4
MIL-G-10924	2	0	1	2	4	1	1	1	1	1	4	1	4	0	4	0	4
MIL-G-15793	1	0	1	2	4	1	1	1	2	1	4	1	4	0	4	0	4
MIL-G-21568	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	0	4
MIL-G-25013	1	0	3	2	1	1	1	1	1	1	1	1	2	0	1	0	4
MIL-G-25537	2	0	1	2	4	1	1	1	1	1	4	1	4	0	4	0	4
MIL-G-25760	2	0	2	2	4	1	1	1	2	2	4	2	4	0	4	0	4
MIL-G-3278	1	0	2	4	4	1	1	1	2	2	4	2	4	0	4	0	4
MIL-G-3545	1	0	1	2	4	1	1	1	1	1	4	1	4	0	4	0	4

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MIL-G-4343	1	0	1	2	3	1	1	1	1	2	3	2	1	0	1	0	3
MIL-G-5572	2	0	2	4	4	1	1	1	1	1	4	1	4	0	4	0	4
MIL-G-7118	3	0	3	2	4	1	1	1	1	2	4	2	4	0	4	0	4
MIL-G-7187	1	0	1	4	4	1	1	1	1	1	4	1	4	0	4	0	4
MIL-G-7421	4	0	2	2	4	1	1	1	2	2	4	2	4	0	4	0	4
MIL-G-7711	2	0	1	4	4	1	1	1	1	1	4	1	4	0	4	0	2
MIL-H-13910	2	0	4	1	1	1	1	1	2	1	1	1	1	0	1	0	4
MIL-H-19457	4	0	4	4	2	1	1	1	4	4	1	4	4	0	4	0	3
MIL-H-22251	0	0	0	2	1	0	0	0	0	2	1	2	0	0	2	0	4
MIL-H-27601	1	0	3	2	4	1	1	1	2	1	4	1	4	0	4	0	4
MIL-H-46170 –15°F to +400°F	2	0	2	2	4	1	1	1	1	1	4	1	4	0	4	0	4
MIL-H-46170 –20°F to +275°F	2	0	2	2	4	1	1	1	1	1	4	1	4	0	4	0	4
MIL-H-46170 –55°F to +275°F	2	0	2	2	4	1	1	1	1	1	4	1	4	0	4	0	4
MIL-H-46170 –65°F to +275°F	2	0	2	2	4	1	1	1	1	1	4	1	4	0	4	0	4
MIL-H-5606 –65°F to +235°F	2	0	2	2	4	1	1	1	1	1	4	1	4	0	4	1	4
MIL-H-5606 –65°F to +275°F	2	0	2	2	4	1	1	1	1	1	4	1	4	0	4	1	4
MIL-H-6083	1	0	1	1	4	1	1	1	1	1	4	1	2	0	4	0	4
MIL-H-7083	4	0	4	2	1	1	1	2	1	1	1	1	2	0	2	0	1
MIL-H-8446	3	0	4	1	4	1	1	1	1	2	4	2	4	0	4	1	4
MIL-J-5161	1	0	2	4	4	1	1	1	1	2	4	2	4	0	4	0	4
Milk	4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Milk of Lime	0	0	0	2	0	0	1	1	0	4	0	4	4	1	2	0	0
MIL-L-15016	1	0	1	2	4	1	1	1	2	1	4	1	4	0	4	0	4
MIL-L-15017	1	0	1	2	4	1	1	1	2	1	4	1	4	0	4	0	4
MIL-L-17331	0	0	0	0	4	1	1	1	0	1	4	1	4	0	4	0	4
MIL-L-2104	1	0	1	2	4	1	1	1	1	1	4	1	4	0	4	0	4
MIL-L-21260	1	0	1	2	4	1	1	1	1	1	4	1	4	0	4	0	4
MIL-L-23699	3	0	3	3	4	1	1	1	2	2	4	2	4	0	4	1	4
MIL-L-25681	2	0	3	2	1	1	1	1	2	2	1	2	2	0	2	0	4
MIL-L-3150	2	0	2	2	4	1	1	1	1	1	4	1	4	0	4	0	4
MIL-L-6081	1	0	1	2	4	1	1	1	1	1	4	1	4	0	4	0	4
MIL-L-6082	1	0	1	2	4	1	1	1	1	1	4	1	4	0	4	0	3
MIL-L-6085	2	0	3	4	4	1	1	1	2	2	4	2	4	0	4	0	4
MIL-L-6387	2	0	1	4	4	1	1	1	2	2	4	2	4	0	4	0	4
MIL-L-7808	2	0	4	4	4	1	1	1	2	2	4	2	4	1	4	1	4
MIL-L-7808A	2	0	4	4	4	1	1	1	2	2	4	2	4	0	4	1	4

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MIL-L-7870	1	0	2	2	4	1	1	1	1	1	4	1	4	0	4	0	4
MIL-L-9000	1	0	3	2	4	1	1	1	2	1	4	1	4	0	4	0	4
MIL-L-9236	2	0	2	4	4	1	1	1	2	2	4	2	4	0	4	0	4
MIL-O-3503	2	0	1	2	4	1	1	1	1	1	4	1	4	0	4	0	4
MIL-P-27402	0	0	0	2	1	0	0	0	0	2	1	2	0	0	2	0	4
MIL-R-25576	1	0	1	2	4	1	1	1	1	1	4	1	4	0	4	1	4
MIL-S-3136 Type I Fuel	1	0	1	2	4	1	1	1	1	1	4	1	4	0	4	0	4
MIL-S-3136 Type II Fuel	3	0	2	4	4	1	1	1	2	2	4	2	4	0	4	0	4
MIL-S-3136 Type III Fuel	3	0	2	4	4	1	1	1	2	2	4	2	4	0	4	0	4
MIL-S-3136 Type IV Oil, High Swell	1	0	1	4	4	1	1	1	1	1	4	1	4	0	4	0	2
MIL-S-3136 Type IV Oil, Low Swell	1	0	1	1	4	1	1	1	1	1	4	1	4	0	4	0	3
MIL-S-3136 Type V Oil, Medium Swell	1	0	1	2	1	1	1	1	1	1	4	2	4	0	4	1	1
MIL-S-81087	1	0	1	1	1	1	1	1	2	1	1	1	1	0	1	0	3
MIL-T-5624	2	0	2	4	4	1	1	1	2	1	4	1	4	0	4	2	4
MIL-T-83133	1	0	1	3	4	1	1	1	2	1	4	1	4	0	4	2	4
Mineral Oils	1	1	1	4	3	1	1	1	1	1	4	1	4	1	4	1	2
Mineral Water	0	0	0	2	1	0	1	1	1	1	1	1	1	1	1	0	1
Mixed Acid Etchants	0	0	0	0	4	2	1	3	4	0	0	4	0	0	0	3	4
Mixed Acids	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
MLO-7277	3	0	3	4	4	1	1	1	3	3	4	3	4	0	4	1	4
MLO-7557	3	0	3	4	4	1	1	1	3	3	4	3	4	0	4	1	4
MLO-8200	0	0	1	1	4	1	1	1	1	2	4	2	4	0	4	1	4
MLO-8515	3	0	1	1	4	1	1	1	1	2	4	2	4	0	4	1	4
Mobil 24DTE	0	0	0	2	4	1	1	1	0	1	0	1	0	0	0	1	0
Mobil HF	0	0	0	2	4	1	1	1	0	1	0	1	0	0	0	2	0
Mobil SHC 500 Series	1	0	2	2	4	1	1	1	2	3	4	3	0	0	0	0	2
Mobil SHC 600 Series	1	0	1	2	4	1	1	1	2	3	4	3	0	0	4	0	3
Mobil Therm 600	0	0	0	2	4	1	1	1	0	1	0	1	0	0	0	1	0
Mobil Velocite C	0	0	0	2	4	1	1	1	0	1	0	1	0	0	0	1	0
Mobilgas WA200 ATF	0	0	0	2	4	1	1	1	0	1	0	1	0	0	0	1	0
Mobilgear 600 Series	1	0	2	1	3	1	1	1	1	3	3	3	4	0	4	0	1
Mobilgear SHC ISO Series	1	0	2	2	3	1	1	1	1	3	3	3	4	0	4	0	1
Mobilgrease HP	1	0	1	2	4	1	1	1	1	2	4	2	4	0	4	0	2
Mobilgrease HTS	1	0	1	2	4	1	1	1	1	2	4	2	4	0	4	0	2

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Mobilgrease SM	1	0	1	2	4	1	1	1	1	2	4	2	4	0	4	0	2
Mobilith AW Series	1	0	1	2	4	1	1	1	1	2	4	2	4	0	4	0	2
Mobilith SHC Series	1	0	1	3	4	1	1	1	1	2	4	2	4	0	4	0	2
Mobilmistlube Series	1	0	2	1	3	1	1	1	1	3	3	3	4	0	4	0	1
Mobiloil SAE 20	0	0	0	2	4	1	1	1	0	1	0	1	0	0	0	1	0
Mobilux	0	0	0	2	4	1	1	1	0	1	0	1	0	0	0	1	0
Molasses	0	0	0	2	2	0	1	1	0	1	2	1	4	1	4	0	0
Molybdenum Disulfide Grease	0	0	0	4	4	1	1	2	0	1	0	1	0	0	0	1	0
Molybdenum Oxide	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Molybdenum Trioxide	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Molybdic Acid	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Monobromobenzene	4	0	4	4	4	1	1	2	4	4	4	4	4	1	4	4	4
Monobromotoluene	4	0	3	4	0	1	1	1	2	0	4	0	4	0	4	0	0
Monochloracetic Acid	0	0	4	2	1	0	2	0	0	2	1	2	4	1	4	0	0
Monochloracetic Acid, Ethyl Ester	4	0	4	4	2	0	1	2	4	4	2	4	4	1	4	0	4
Monochloracetic Acid, Methyl Ester	4	0	4	4	1	0	1	2	4	4	1	4	4	1	4	0	4
Monochloroacetic Acid	4	0	4	1	1	2	1	4	1	3	1	3	1	0	1	0	2
Monochlorobenzene	4	0	4	4	4	1	1	2	2	4	4	4	4	0	4	4	4
Monochlorobutene	4	0	3	4	0	1	1	1	2	0	4	0	4	0	4	0	0
Monoethanolamine	4	0	4	4	2	2	1	4	4	4	2	4	2	0	2	0	2
Monoethyl Amine	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Monoisopropylamine	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Monomethyl Aniline	4	0	4	1	1	1	1	2	1	4	1	4	1	0	1	2	2
Monomethyl Ether	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0
Monomethyl Hydrazine	0	0	0	2	1	2	2	4	0	2	1	2	0	0	2	2	4
Monomethylamine	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Monomethylaniline	4	0	4	4	4	1	1	3	0	4	2	4	4	0	4	2	0
Mononitrotoluene	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Mononitrotoluene, 40% & Dinitrotoluene, 60%	4	0	4	4	1	2	2	3	3	4	4	4	4	0	4	3	4
Monovinyl Acetate	4	0	4	4	2	0	0	0	1	0	1	4	4	1	4	0	4
Monovinyl Acetylene	0	0	0	2	1	1	1	1	0	1	1	1	2	0	2	3	2
Mopar Brake Fluid	0	0	0	2	1	4	1	4	4	3	2	3	0	0	1	1	3
Morpholine	4	0	3	4	2	1	1	1	2	4	2	4	4	1	4	0	0
Motor Oils	1	0	1	2	4	1	1	1	1	1	4	1	4	0	4	0	2

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Myristic Acid	4	0	3	4	0	1	1	1	2	0	4	0	4	0	4	0	0
Myristyl Alcohol	1	0	0	1	1	0	1	1	0	1	1	1	1	1	1	0	0
Naftolen ZD	0	0	0	4	4	0	1	1	0	2	4	2	4	1	4	0	0
Naphtha	2	4	4	4	4	1	1	1	2	4	4	2	4	1	4	2	4
Naphthalene	0	0	2	4	4	1	1	1	1	4	4	4	4	1	4	3	4
Naphthalene Chloride	4	0	3	4	0	1	1	1	2	0	4	0	4	0	4	0	0
Naphthalene Sulfonic Acid	4	0	3	4	0	1	1	1	2	0	4	0	4	0	4	0	0
Naphthalenic	0	0	0	4	4	0	1	1	1	0	4	2	4	1	4	1	4
Naphthalenic Acid	4	0	3	4	0	1	1	1	2	0	4	0	4	0	4	0	0
Naphthalonic Acid	4	0	3	4	0	1	1	1	2	0	4	0	4	0	4	0	0
Naphthenic Acid	0	0	0	4	4	1	1	1	1	2	4	2	4	0	4	1	4
Naphthoic Acid	0	0	0	0	0	0	1	1	1	2	0	2	0	1	0	0	0
Naptha	2	0	2	4	4	1	1	1	2	2	4	2	4	0	4	0	4
Natural Gas	2	1	2	1	4	1	1	1	3	1	4	1	4	1	3	1	2
Neatsfoot Oil	1	0	1	4	2	1	1	1	1	1	2	1	4	1	4	1	2
Neon	1	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
Neville Acid	4	0	0	4	2	1	1	1	2	4	2	4	4	0	4	1	4
Neville-Winter Acid	0	0	0	0	2	1	1	1	2	0	0	4	0	0	0	1	4
Nickel Acetate	4	0	4	2	1	2	1	4	4	2	1	2	1	1	1	4	4
Nickel Ammonium Sulfate	4	0	4	1	1	1	1	2	1	3	1	1	1	0	1	1	2
Nickel Chloride	3	0	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1
Nickel Cyanide	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Nickel Nitrate	4	0	4	1	1	1	1	1	1	3	1	3	1	0	1	0	2
Nickel Salts	3	0	3	2	1	1	1	1	1	1	1	1	1	0	1	1	1
Nickel Sulfate	4	0	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Nicotinamide	4	0	3	4	0	1	1	1	2	0	4	0	4	0	4	0	0
Nicotinamide Hydrochloride	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Nicotine	4	0	3	4	0	1	1	2	2	0	4	0	4	0	4	0	0
Nicotine Sulfate	4	0	4	1	1	1	1	3	1	3	1	3	1	0	1	0	2
Niter Cake	4	0	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1
Nitric Acid, 0–50%	4	0	0	2	3	1	1	1	2	2	2	4	4	1	2	2	2
Nitric Acid, 3M to 158°F	4	0	4	4	2	2	2	2	4	4	2	4	0	0	3	0	4
Nitric Acid, 50–100%	0	0	0	0	4	1	1	2	4	0	0	4	0	0	0	3	4
Nitric Acid, Concentrated	0	0	4	4	4	2	1	4	0	4	4	4	4	1	4	2	0
Nitric Acid, Concentrtd. to 158°F	4	0	4	4	4	4	4	4	4	4	4	4	4	0	4	0	4
Nitric Acid, Red Fuming	0	0	0	4	4	2	1	3	4	4	0	4	0	0	0	3	4

1] Little or no effect (Volume swell <10%) 2] Possible loss of physical properties (Volume swell 10–20%)
3] Noticeable change (Volume swell 20–40%) 4] Not suitable for service 0] Insufficient info