

Chemical Resistance Guide for Fluoroelastomers

Rough Standard for Employment A : Suitable B : Applicable C : Not Recommendable D : Not Applicable

Chemicals	FKM					FFKM		
	AFLAS	VITON	High Fluorided	Peroxidize	ETP	Chemical Resistant	Thermal Resistant	High Purity
	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Abietic Acid		B	A	A	A	A	A	A
Acetaldehyde	D	D	D	C	C	A	B	B
Acetamide	A	B	A	A	A	A	A	A
Acetanilide		C	C	B	A	A	A	A
Acetic Acid (30%)		B	B	A	A	A	A	A
Acetic Acid (20% Glacial)	C	C	B	A	A	A	A	A
Acetic Acid (Glacial)	C	D	D	C	B	A	A	A
Acetic Anhydride	B	D	D	D	C	A	A	A
Acetoacetic Acid		D	D	D	C	A	A	A
Acetone	D	D	D	D	B	A	A	A
Acetone Cyanohydrin		D	D	C	B	A	A	A
Acetone/Toluene		D	D	D	B	A	A	A
Acetonitrile	A	D	D	D	B	A	A	A
Acetophenone	D	D	D	D	C	A	A	A
Acetylacetone	D	D	D	C	A	A	B	B
Acetylacetone (20% solution)		D	D	C	A	A	A	A
Acetyl Chloride	A	A	A	A	A	A	A	A
Acetylene	A	A	A	A	A	A	A	A
Acetylene Tetrabromide		A	A	A	A	A	A	A
Acetylene Tetrachloride		A	A	A	A	A	A	A
Acetylsalicylic Acid		A	A	A	A	A	A	A
Acids, Non-organic		B	A	A	A	A	A	A
Acids, Organic		C	C	B	A	A	A	A
Acrolein		D	D	D	C	A	A	A
Acrylic Acid	D	D	D	C	B	A	A	A
Acrylonitrile	B	D	D	D	C	A	B	B
Adipic Acid	B	B	A	A	A	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Adiprene L-167		B	A	A	A	A	A	A
Aero Lubriplate		A	A	A	A	A	A	A
Aero Shell 17 Grease		A	A	A	A	A	A	A
Aero Shell 1AC Grease		A	A	A	A	A	A	A
Aero Shell 100		A	A	A	A	A	A	A
Aero Shell 750 Grease		A	A	A	A	A	A	A
Aero Shell Turbine Oil 560		C	C	A	A	A	A	A
Aero Shell Turbine Oil 760		A	A	A	A	A	A	A
Aero Shell 7A Grease		A	A	A	A	A	A	A
Aero Shell Fluid No.4		A	A	A	A	A	A	A
Air, <200°C		A	A	A	A	A	A	A
Alkanes (Paraffin Hydrocarbons)		A	A	A	A	A	A	A
Alkazene (Dibromoethylbenzene)		B	B	B	A	A	A	A
Alkenes (Olefin Hydrocarbons)		A	A	A	A	A	A	A
Alkyl Acetone		D	D	D	C	A	A	A
Alkyl Alcohol		D	B	A	A	A	A	A
Alkyl Amine		D	D	C	B	A	B	B
Alkyl Benzene		B	A	A	A	A	A	A
Alkyl Chloride		B	A	A	A	A	A	A
Allyl Chloride	B	C	C	C	B	A	A	A
Aluminum Acetate		D	D	D	C	A	B	B
Aluminum Bromine		A	A	A	A	A	A	A
Aluminum Chloride		A	A	A	A	C	C	C
Aluminum Fluoride		A	A	A	A	A	A	A
Aluminum Formate		D	D	D	C	A	A	A
Aluminum Hydroxide		A	A	A	A	A	A	A
Aluminum Nitrate		A	A	A	A	A	A	A

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Aluminum Phosphate		A	A	A	A	A	A	A
Aluminum Potassium Sulfate		A	A	A	A	A	A	A
Aluminum Salts		A	A	A	A	A	A	A
Aluminum Sodium Sulfate		A	A	A	A	A	A	A
Aluminum Sulfate		A	A	A	A	A	A	A
Alums		A	A	A	A	A	A	A
AMBREX 33		A	A	A	A	A	A	A
AMBREX 830		A	A	A	A	A	A	A
Amines		D	D	D	C	A	B	B
Aminobenzoic Acid	A	C	C	C	C	A	B	B
Aminopyridine	C	D	D	D	C	A	B	B
Ammonia (Anhydrous)		D	D	D	B	A	A	A
Ammonia (Gas · Cold)	A	D	D	D	B	A	A	A
Ammonia (Gas · hot)	A	D	D	D	B	A	A	A
Ammonia (Liquid)		D	D	C	B	A	A	A
Ammonium Acetate		D	D	D	C	A	A	A
Ammonium Bicarbonate		D	D	D	C	A	A	A
Ammonium Bifluoride		A	A	A	A	B	B	B
Ammonium Carbonate		A	A	A	A	A	A	A
Ammonium Chloride (Sal Ammoniac)	A	A	A	A	A	A	A	A
Ammonium Diphosphate		A	A	A	A	A	A	A
Ammonium Fluoride		A	A	A	A	A	B	B
Ammonium Hydroxide(saturated)	A	B	B	A	A	A	A	A
Ammonium Hydroxide	A	C	B	A	A	A	A	A
Ammonium Nitrate		A	A	A	A	A	A	A
Ammonium Persulfate		A	A	A	A	A	A	A
Ammonium Phosphate		A	A	A	A	A	A	A

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Ammonium Phosphate (Dibasic)		A	A	A	A	A	A	A
Ammonium Phosphate (Monobasic)		A	A	A	A	A	A	A
Ammonium Phosphate (Tribasic)		A	A	A	A	A	A	A
Ammonium Salts		C	C	B	B	A	A	A
Ammonium Sulfamate		D	D	D	C	A	A	A
Ammonium Sulfate		B	B	A	A	A	A	A
Ammonium Sulfide		B	B	A	A	A	A	A
Ammonium Sulfite		A	A	A	A	A	A	A
Ammonium Thiocyanate		A	A	A	A	A	A	A
Ammonium Thiosulfate		A	A	A	A	A	A	A
AMS 3021		B	B	A	A	A	A	A
AMS 3023		B	B	A	A	A	A	A
Amyl Acetate (Banana Oil)	D	D	D	D	B	A	A	A
Amyl Alcohol	A	B	B	A	A	A	A	A
Amyl Chloride	A	A	A	A	A	A	A	A
Amyl Borate		A	A	A	A	A	A	A
Amyl Butyrate		B	A	A	A	A	A	A
Amyl Chloride		A	A	A	A	A	A	A
Amyl Chloronaphthalene	B	A	A	A	A	A	A	A
Amyl Cinnamic Aldehyde		D	D	D	C	A	A	A
tert-Amyl Ethyl Ether (TAEE)		A	A	A	A	A	A	A
Amyl Laurate		B	A	A	A	A	A	A
tert-Amyl Methyl Ether (TAME)		D	D	B	A	A	A	A
Amyl Naphthalene	B	A	A	A	A	A	A	A
Amyl Phenol		A	A	A	A	A	A	A
Amyl Propionate		B	A	A	A	A	A	A
AN-0-3 Grade M		A	A	A	A	A	A	A

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AN-0-6		A	A	A	A	A	A	A
AN-0-366		A	A	A	A	A	A	A
Anderol 774		A	A	A	A	A	A	A
Anderol L-774 (diester)		A	A	A	A	A	A	A
Anderol L-826		A	A	A	A	A	A	A
Anderol L-829		A	A	A	A	A	A	A
ANG-25 (diester base)		A	A	A	A	A	A	A
ANG-25 (glycerol ester)		A	A	A	A	A	A	A
Aniline	B	A	A	A	A	A	A	A
Aniline Dyes ()		B	B	A	A	A	A	A
Aniline Hydrochloride	A	B	B	A	A	A	A	A
Aniline Oils	B	C	C	B	B	A	B	B
Animal Fats (lards)		A	A	A	A	A	A	A
Animal Fats (Oils)		A	A	A	A	A	A	A
Anisole		C	B	A	A	A	A	A
Ansul Ether (Anesthetics)		D	D	D	C	A	B	B
Anthracene		A	A	A	A	A	A	A
Anthranilic Acid		B	A	A	A	A	A	A
Anthraquinone		C	B	B	A	A	A	A
Antifreeze Solutions		B	A	A	A	A	A	A
Antimony Chloride		B	B	A	A	A	A	A
Antimony Pentachloride		B	A	A	A	A	A	A
Antimony Trichloride		A	A	A	A	A	A	A
AN-VV-0-366B Hydraulic		A	A	A	A	A	A	A
Aqua Regia	C	C	C	B	A	A	A	A
Arachidic Acid		B	B	A	A	A	A	A
Argon		A	A	A	A	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
ARM200		B	B	A	A	A	A	A
Aroclor 1248		A	A	A	A	A	A	A
Aroclor 1254		A	A	A	A	A	A	A
Aroclor 1260		A	A	A	A	A	A	A
Aromatic Fuels		B	A	A	A	A	A	A
Arsenic Acid	A	A	A	A	A	A	A	A
Arsenic Trichloride	D	D	D	D	C	A	B	B
Ascorbic Acid		A	A	A	A	A	A	A
Askarel		A	A	A	A	A	A	A
Askarel Transformer Oil		A	A	A	A	A	A	A
Aspartic Acid		D	C	B	B	A	A	A
Asphalt		A	A	A	A	A	A	A
Aspirin		A	A	A	A	A	A	A
ASTM Diesel Fuel Oil 1-D(\$15)		A	A	A	A	A	A	A
ASTM Diesel Fuel Oil 1-D(\$500)		A	A	A	A	A	A	A
ASTM Diesel Fuel Oil 1-D(\$5000)		A	A	A	A	A	A	A
ASTM Diesel Fuel Oil 2-D(\$15)		A	A	A	A	A	A	A
ASTM Diesel Fuel Oil 2-D(\$500)		A	A	A	A	A	A	A
ASTM Diesel Fuel Oil 2-D(\$5000)		A	A	A	A	A	A	A
ASTM Diesel Fuel Oil 4-D		A	A	A	A	A	A	A
ASTM Hydrocarbon Test Fluid		A	A	A	A	A	A	A
ASTM Oil No.1	A	A	A	A	A	A	A	A
ASTM Oil No.2	A	A	A	A	A	A	A	A
ASTM Oil No.3	A	A	A	A	A	A	A	A
ASTM Oil No.4	A	A	A	A	A	A	A	A
ASTM Oil No.5	A	A	A	A	A	A	A	A
ASTM Reference Fuel A	D	A	A	A	A	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
ASTM Reference Fuel B	D	A	A	A	A	A	A	A
ASTM Reference Fuel C	D	A	A	A	A	A	A	A
ASTM Reference Fuel C/1-Butanol (80%/20%)		B	A	A	A	A	A	A
ASTM Reference Fuel C/DIPE		B	A	A	A	A	A	A
ASTM Reference Fuel C/DIPE		A	A	A	A	A	A	A
ASTM Reference Fuel C/ETBE		A	A	A	A	A	A	A
ASTM Reference Fuel C/ETBE		A	A	A	A	A	A	A
ASTM Reference Fuel C/ETBE		A	A	A	A	A	A	A
ASTM Reference Fuel C/ETBE		A	A	A	A	A	A	A
ASTM Reference Fuel C/Ethanol (90%/10%)		B	B	A	A	A	A	A
ASTM Reference Fuel C/Ethanol (75%/25%)		B	A	A	A	A	A	A
ASTM Reference Fuel C/Ethanol (50%/50%)		B	B	A	A	A	A	A
ASTM Reference Fuel C/Ethanol (15%/85%)		B	B	A	A	A	A	A
ASTM Reference Fuel C/Ethanol (90%/10%)		B	B	A	A	A	A	A
ASTM Reference Fuel C/Methanol (85%/15%)		C	C	A	A	A	A	A
ASTM Reference Fuel C/Methanol (75%/25%)		D	C	A	A	A	A	A
ASTM Reference Fuel C/Methanol (50%/50%)		D	C	A	A	A	A	A
ASTM Reference Fuel C/Ethanol (15%/85%)		D	C	A	A	A	A	A
ASTM Reference Fuel C/Mopar Fuel Injector Cleaner (50%/50%)		B	A	A	A	A	A	A
ASTM Reference Fuel C/MTBE (85%/15%)		B	A	A	A	A	A	A
ASTM Reference Fuel C/MTBE (75%/25%)		C	B	A	A	A	A	A
ASTM Reference Fuel C/MTBE (50%/50%)		D	C	B	A	A	A	A
ASTM Reference Fuel C/MTBE (25%/75%)		D	D	D	B	A	A	A
ASTM Reference Fuel C/TAAE (85%/15%)		B	A	A	A	A	A	A
ASTM Reference Fuel C/TAAE (25%/75%)		B	A	A	A	A	A	A
ASTM Reference Fuel C/TAME (85%/15%)		B	B	A	A	A	A	A
ASTM Reference Fuel C/TAME (25%/75%)		D	C	B	A	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
ASTM Reference Fuel D	D	B	A	A	A	A	A	A
ASTM Reference Fuel E		B	A	A	A	A	A	A
ASTM Reference Fuel F		A	A	A	A	A	A	A
ASTM Reference Fuel G		B	B	A	A	A	A	A
ASTM Reference Fuel H		B	A	A	A	A	A	A
ASTM Reference Fuel I		C	B	A	A	A	A	A
ASTM Reference Fuel J		B	A	A	A	A	A	A
ASTM Reference Oil IRM901		A	A	A	A	A	A	A
ASTM Reference Oil IRM902		A	A	A	A	A	A	A
ASTM Reference Oil IRM903		A	A	A	A	A	A	A
ASTM Service Fluid 105		D	D	C	A	A	A	A
ATREX		A	A	A	A	A	A	A
AUREX 903R		A	A	A	A	A	A	A
Automatic Transmission Fluid		A	A	A	A	A	A	A
Automotive Brake Fluid		D	D	C	B	A	A	A
Automotive Fuel 2B		B	A	A	A	A	A	A
Automotive Fuel 60		B	A	A	A	A	A	A
Automotive Fuel 60B		C	B	A	A	A	A	A
Automotive Fuel RF2		B	A	A	A	A	A	A
Avtag (Shell Aerofuel)		A	A	A	A	A	A	A
Avtex 903 Hydraulic Oil (Mil-H-6083)		A	A	A	A	A	A	A
biofuel based on 98% diesel fuel #2 and 2% rapeseed methyl ester		A	A	A	A	A	A	A
biofuel based on 95% diesel fuel #2 and 5% rapeseed methyl ester		A	A	A	A	A	A	A
Biodiesel fuel based on 95% diesel fuel #2, 5% rapeseed methyl ester and 0.5% water by volume		B	A	A	A	A	A	A
Biofuel based on 80% diesel fuel #2 and 20% rapeseed methyl ester		A	A	A	A	A	A	A
Biodiesel fuel based on 80% diesel fuel #2, 20% rapeseed methyl ester, and 5% by volume		D	A	A	A	A	A	A
Biofuel based on 70% diesel fuel #2 and 30% rapeseed methyl ester		A	A	A	A	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Biodiesel based on Rapeseed methyl ester and 0.5% water		A	A	A	A	A	A	A
Biodiesel based on Rapeseed methyl ester and 0.5% water, by volume		D	A	A	A	A	A	A
BARDOL B		A	A	A	A	A	A	A
Barium Carbonate		A	A	A	A	A	A	A
Barium Chlorate		A	A	A	A	A	A	A
Barium Chloride		A	A	A	A	A	A	A
Barium Cyanide		A	A	A	A	A	A	A
Barium Hydroxide		A	A	A	A	A	A	A
Barium Nitrate		A	A	A	A	A	A	A
Barium Salts		A	A	A	A	A	A	A
Barium Sulfate		A	A	A	A	A	A	A
Barium Sulfide		A	A	A	A	A	A	A
BAYOL 35		A	A	A	A	A	A	A
BAYOL D		A	A	A	A	A	A	A
Beer		A	A	A	A	A	A	A
Beet Sugar Liquors		A	A	A	A	A	A	A
Benzaldehyde	B	D	D	C	C	A	B	B
Benzanthrone		B	A	A	A	A	A	A
Benzene	D	B	A	A	A	A	A	A
Benzene Hexachloride (BHC)		B	B	A	A	A	A	A
Benzene Sulfonic Acid	A	A	A	A	A	A	A	A
Benzine (Ligroin)		A	A	A	A	A	A	A
Benzoic Acid	A	A	A	A	A	A	A	A
Benzophenone	A	B	A	A	A	A	A	A
Benzotrichloride	C	B	A	A	A	A	A	A
Benzoyl Chloride	B	B	A	A	A	A	A	A
Benzyl Acetate		D	D	D	C	A	A	A

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Benzyl Alcohol	B	A	A	A	A	A	A	A
Benzyl Amine		D	D	D	C	A	B	B
Benzyl Benzoate	C	A	A	A	A	A	A	A
Benzyl Butyl Phthalate		C	B	B	A	A	A	A
Benzyl Chloride	B	A	A	A	A	A	A	A
p-Benzylphenol		B	A	A	A	A	A	A
Biobor JF (Oil Fungicide)		B	A	A	A	A	A	A
Biodiesel (Fatty Acid Methyl Esters)		A	A	A	A	A	A	A
Biodiesel a (Fatty Acid Methyl Esters)		D	A	A	A	A	A	A
Biphenyl (Diphenyl) (Phenylbenzene)		A	A	A	A	A	A	A
Bismuth Carbonate		A	A	A	A	A	A	A
Black Liquor		A	A	A	A	A	A	A
Black Point 77		A	A	A	A	A	A	A
Blast Furnace Gas		A	A	A	A	A	A	A
Bleach Solutions		A	A	A	A	A	A	A
Bone Oil		A	A	A	A	A	A	A
Borax		A	A	A	A	A	A	A
Bordeaux Mixture		A	A	A	A	A	A	A
Boric Acid	A	A	A	A	A	A	A	A
Borneol		B	B	A	A	A	A	A
Bornyl Acetate		D	D	D	B	A	A	A
Boron Fluids (HEF)		A	A	A	A	A	A	A
Boscan Asphalt (85-100)		A	A	A	A	A	A	A
B.P. Aero Hydraulic Fluid No.1		A	A	A	A	A	A	A
B.P. Turbine Oil 2197		C	B	B	A	A	A	A
B.P. Turbine Oil 2380		C	B	B	A	A	A	A
Brayco Hydraulic Oil 783 (Mil-H-		A	A	A	A	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Brayco Hydraulic Oil 783 (Mil-H-		A	A	A	A	A	A	A
BRAYCO 910		D	D	C	B	A	A	A
Bray Oil 762		A	A	A	A	A	A	A
Brine		A	A	A	A	A	A	A
Bromine Anhydrous	A	A	A	A	A	A	A	A
Bromine Pentafluoride		D	D	D	C	A	A	A
Bromine Trifluoride		D	D	D	C	B	B	B
Bromine Water	A	A	A	A	A	A	A	A
Bromobenzene		A	A	A	A	A	A	A
Bromochloromethane		D	C	C	B	A	A	A
Bromochloropropane		C	B	B	B	A	A	A
Bromochlorotrifluoroethane (HALOTHANE)	A	A	A	A	A	A	A	A
Bromoethane	A	A	A	A	A	A		
Bromomethane	A	A	A	A	A	A	A	A
Bromotrifluoroethylene (BFE)		A	A	A	A	A	A	A
Bromotrifluoromethane (Freon 13B1)		B	B	B	—	B	B	B
Bunker Oil (Bunker "C" · Fuel Oil)		A	A	A	A	A	A	A
Butadiene	B	C	B	A	A	A	D	D
Butane	B	A	A	A	A	A	A	A
1,4-Butanediol		A	A	A	A	A	A	A
1-Butanol		A	A	A	A	A	A	A
Butene		A	A	A	A	A	A	A
Butter (Animal Fat)		A	A	A	A	A	A	A
Butyl Acetate	C	D	D	D	C	A	A	A
Butyl Acetyl Ricinoleate	A	A	A	A	A	A	A	A
Butyl Acrylate	C	D	D	D	C	A	A	A
Butyl Alcohol	A	A	A	A	A	A	A	A

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	AFLAS	VITON	High Fluorided	Peroxidize	ETP	Chemical Resistant	Thermal Resistant	High Purity
	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Butyl Aldehyde	D	D	D	D	D	B	C	C
Butyl Amine	B	D	D	D	C	A	B	B
Butyl Benzoate		A	A	A	A	A	A	A
Butyl Benzyl Phthalate (BBP)		C	B	A	A	A	A	A
Butyl Butyrate		A	A	A	A	A	A	A
Butyl Carbitol	B	B	A	A	A	A	A	A
Butyl Cellosolve	C	D	D	C	B	A	A	A
Butyl Cellosolve Adipate	B	D	D	D	C	A	A	A
Butyl Chloride		A	A	A	A	A	A	A
Butyl Ether		D	D	D	C	A	A	A
Butyl Laurate		B	A	A	A	A	A	A
Butyl Mercaptan		D	C	B	B	A	A	A
Butyl Methacrylate		D	D	D	B	A	A	A
Butyl Oleate	A	A	A	A	A	A	A	A
Butyl Stearate	A	A	A	A	A	A	A	A
Butylene		A	A	A	A	A	A	A
p-tert-Butylphenol		B	A	A	A	A	A	A
Butyraldehyde		D	D	D	C	A	B	B
Butyric Acid		C	B	B	B	A	A	A
Cadmium Acetate		D	D	D	C	A	A	A
Cadmium Cyanide		A	A	A	A	A	A	A
Cadmium Nitrate		B	A	A	A	A	A	A
Calcine Liquors		A	A	A	A	A	A	A
Calcium Acetate		D	D	D	C	A	B	B
Calcium Bicarbonate		B	A	A	A	A	A	A
Calcium Bisulfide		A	A	A	A	A	A	A
Calcium Bisulfite		A	A	A	A	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Calcium Carbide		A	A	A	A	A	A	A
Calcium Carbonate		A	A	A	A	A	A	A
Calcium Chlorate		A	A	A	A	A	A	A
Calcium Chloride		A	A	A	A	A	A	A
Calcium Chloride Solution (25%)		A	A	A	A	A	A	A
Calcium Cyanide		A	A	A	A	A	A	A
Calcium Hydroxide		A	A	A	A	A	A	A
Calcium Hypochlorite		A	A	A	A	A	A	A
Calcium Magnesium Acetate Solution		A	A	A	A	A	A	A
Calcium Nitrate		A	A	A	A	A	A	A
Calcium Oxide		A	A	A	A	A	A	A
Calcium Phosphate, monobasic		A	A	A	A	A	A	A
Calcium Salts		A	A	A	A	A	A	A
Calcium Silicate		A	A	A	A	A	A	A
Calcium Stearate		A	A	A	A	A	A	A
Calcium Sulfate		B	B	A	A	A	A	A
Calcium Sulfide		A	A	A	A	A	A	A
Calcium Sulfite		A	A	A	A	A	A	A
Calcium Thiosulfate		A	A	A	A	A	A	A
Caliche Liquors		A	A	A	A	A	A	A
Camphene		B	A	A	A	A	A	A
Camphor	A	B	A	A	A	A	A	A
Camphoric Acid		B	A	A	A	A	A	A
Cane Sugar Liquors		A	A	A	A	A	A	A
Capric acid		B	A	A	A	A	A	A
Caproic Acid		B	A	A	A	A	A	A
Caproic Aldehyde		D	D	D	C	A	A	A

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Caprolactam	B	D	D	D	C	A	A	A
Carbamate		A	A	A	A	A	A	A
Carbitol		B	B	B	B	A	A	A
Carbolic Acid (Phenol)		A	A	A	A	A	A	A
Carbon Bisulfide	A	A	A	A	A	A	A	A
Carbon Dioxide (dry · wet)	A	B	B	A	A	A	A	A
Carbon Disulfide		B	A	A	A	A	A	A
Carbon Monoxide	A	A	A	A	A	A	A	A
Carbon Tetrachloride	D	A	A	A	A	A	A	A
Carbonic Acid	A	A	A	A	A	A	A	A
Carvacrol (20% solution)		A	A	A	A	A	A	A
Carvyl Acetate (20% solution)		C	B	A	A	A	A	A
Casein		A	A	A	A	A	A	A
Castor Oil	A	A	A	A	A	A	A	A
CAT Extended Life Coolant-1		D	D	C	A	A	A	A
Catalene (Isopropyl Nitrate)		D	D	D	C	A	A	A
Caustic Lime		A	A	A	A	A	A	A
Cautic Potash		A	A	A	A	A	A	A
Caustic Soda		D	C	B	B	A	A	A
Cellosolve	A	D	D	C	C	A	B	B
Cellosolve Acetate	C	D	D	D	C	A	B	B
Celluguard		A	A	A	A	A	A	A
Cellulose Acetate		D	C	C	B	A	A	A
Cellulube (Fryquel)	A	A	A	A	A	A	A	A
Cetyl Alcohol		A	A	A	A	A	A	A
China Wood Oil (Tung Oil)		A	A	A	A	A	A	A
Chloral (Trichloroacetaldehyde)		D	D	D	C	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Chloramine		D	D	D	C	A	B	B
Chlordane		A	A	A	A	A	A	A
Chlorextol		A	A	A	A	A	A	A
Chlorinated Naphthalene		B	A	A	A	A	A	A
Chlorinated Salt Brine		A	A	A	A	A	A	A
Chlorinated Silicone Oil (F-60 · F-61)		A	A	A	A	A	A	A
Chlorinated Solvents		A	A	A	A	A	A	A
Chlorine (Dry)	A	A	A	A	A	A	A	A
Chlorine (Wet)	C	C	C	B	B	B	B	B
Chlorine Trifluoride		D	D	D	C	B	B	B
Chlorine Water		A	A	A	A	A	A	A
1-Chloro-1-Nitro Ethane		D	D	D	C	A	A	A
Chloroacetaldehyde		D	D	D	C	A	B	B
Chloroacetic Acid	B	D	D	C	B	A	A	A
Chloroacetone	D	D	D	C	B	A	A	A
Chloroaniline	B	C	C	B	B	A	A	A
Chlorobenzaldehyde		D	D	D	C	A	A	A
Chlorobenzene		A	A	A	A	A	A	A
Chlorobromo Methane	C	A	A	A	A	A	A	A
Chlorobromo Propane		A	A	A	A	A	A	A
Chlorobutadiene (Chloroprene)	C	A	A	A	A	A	A	A
Chlorobutane (Butyl Chloride)		A	A	A	A	A	A	A
Chlorodecane	B	A	A	A	A	A	A	A
Chlorododecane		A	A	A	A	A	A	A
Chloroethylbenzene	D	A	A	A	A	A	A	A
Chlorofluoromethane (Freon 22)	D	D	D	D	—	B	B	B
Chloroform	D	B	A	A	A	A	A	A

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Chlorohydrin	A	A	A	A	A	A	A	A
Chloromethane		A	A	A	A	A	A	A
o-Chloronaphthalene	D	A	A	A	A	A	A	A
Chloronitroethane		D	D	D	B	A	A	A
Chloropentafluoroethane (Freon 115)	D	B	B	B	—	B	B	B
Chlorophenol		B	A	A	A	A	A	A
Chloropicrin		A	A	A	A	A	A	A
Chloroprene		A	A	A	A	A	B	B
2-Chloro-p-Toluidine		D	C	B	B	A	A	A
Chlorosulfonic Acid		D	D	D	B	A	A	A
Chlorotoluene		A	A	A	A	A	A	A
Chlorox (Sodium Hypochlorite)		A	A	A	A	A	A	A
Chloroxylene		B	A	A	A	A	A	A
Chrome Alum	C	A	A	A	A	A	A	A
Chrome Plating Solutions		A	A	A	A	A	A	A
Chromic Acid	A	A	A	A	A	A	A	A
Chromic Oxide		A	A	A	A	A	A	A
Cinnamic Acid		A	A	A	A	A	A	A
Cinnamic Alcohol		A	A	A	A	A	A	A
Cinnamic Aldehyde		C	C	B	B	A	A	A
Cinnamyl Alcohol (20% solution)		A	A	A	A	A	A	A
Circo Light Process Oil		A	A	A	A	A	A	A
Citric Acid	A	A	A	A	A	A	A	A
Citral (terpene), 20% Solution		C	B	A	A	A	A	A
Coal Tar	A	A	A	A	A	A	A	A
Cobaltous Acetate		D	D	D	C	A	A	A
Cobalt Chloride		A	A	A	A	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Cocoonut Oil		A	A	A	A	A	A	A
Cod Liver Oil		A	A	A	A	A	A	A
Coke Oven Gas		A	A	A	A	A	A	A
Copper Acetate		D	D	D	C	A	A	A
Copper Carbonate		A	A	A	A	A	A	A
Copper Chloride		A	A	A	A	A	A	A
Copper Cyanide		A	A	A	A	A	A	A
Copper Nitrate		A	A	A	A	A	A	A
Copper Salt		A	A	A	A	A	A	A
Copper Sulfate		A	A	A	A	A	A	A
Corn Oil		A	A	A	A	A	A	A
Corn Syrup		A	A	A	A	A	A	A
Cottonseed Oil		A	A	A	A	A	A	A
Creosote (Coal Tar)		A	A	A	A	A	A	A
Creosote Oil		A	A	A	A	A	A	A
Cresol (Methyl Phenol)	A	A	A	A	A	A	A	A
Cresylic Acid	A	A	A	A	A	A	A	A
Crotonaldehyde		D	D	C	B	A	A	A
Crotonic Acid		B	B	A	A	A	A	A
Crude Oil (Asphalt Base)	A	A	A	A	A	A	A	A
Cumene	C	A	A	A	A	A	A	A
Cummins Extended Life Coolant		D	D	C	A	A	A	A
Cupric Sulfate		A	A	A	A	A	A	A
Cutting Oil		A	A	A	A	A	A	A
Cyanogen Chloride	C	B	B	B	A	A	A	A
Cyclohexane	C	A	A	A	A	A	A	A
Cyclohexanol	A	A	A	A	A	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Cyclohexanone	C	D	D	D	A	A	A	A
Cyclohexene		C	B	B	B	A	A	A
Cyclohexylamine		D	D	D	C	A	B	B
Cyclopentadiene		C	B	B	B	A	B	B
Cyclopentane		A	A	A	A	A	A	A
Cyclopentanone		D	D	D	C	A	A	A
Cyclopolyolefins		C	B	A	A	A	A	A
Cyclopropane		A	A	A	A	A	A	A
P-Cymene		A	A	A	A	A	A	A
DC-200 Silicone Oil		A	A	A	A	A	A	A
Decane	A	A	A	A	A	A	A	A
Decalin		A	A	A	A	A	A	A
Decyl Acetate (20% Solution)		C	B	A	A	A	A	A
Deionized Water		A	A	A	A	A	A	A
Denatured Alcohol		A	A	A	A	A	A	A
Detergent Bleach Solutions (1%)		A	A	A	A	A	A	A
Detergent Solutions		A	A	A	A	A	A	A
Developing Fluids		A	A	A	A	A	A	A
Dextrin		A	A	A	A	A	A	A
Dextron	A	A	A	A	A	A	A	A
Dexron ATF		A	A	A	A	A	A	A
Dexron ATF (Kendale)		A	A	A	A	A	A	A
Dexron ATF (Quaker State)		A	A	A	A	A	A	A
Dexron ATF (Texaco)		A	A	A	A	A	A	A
Dexron III ATF (Petrocanada)		C	C	B	A	A	A	A
Dexron VI ATF		D	D	C	A	A	A	A
Dextrose		A	A	A	A	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Diacetone		D	D	C	B	A	A	A
Diacetone Alcohol (Diacetol)	D	D	D	C	B	A	A	A
Diallyl Ether		D	D	D	B	A	A	A
Diallyl Phthalate (DAP)		B	B	A	A	A	A	A
Diamylamine		D	D	D	C	A	B	B
Diazinon	D	B	B	A	A	A	A	A
Dibasic Esters (DBE)		D	D	C	B	A	A	A
Dibenzyl (sym-Diphenylethane)		B	A	A	A	A	A	A
Dibenzyl Ether	C	D	D	D	C	A	A	A
Dibenzyl Sebacate	A	B	B	A	A	A	A	A
Dibromoethylbenzene(Alkazene)	D	B	A	A	A	A	A	A
Dibromotetrafluoroethane (Freon)		B	B	B	—	B	B	B
Dibutyl Amine	B	D	D	D	C	A	B	B
Dibutyl Ether	D	C	C	C	B	A	A	A
Dibutyl Phthalate (DBP)	B	C	B	A	A	A	A	A
Dibutyl Sebacate (DBS)	B	D	C	A	A	A	A	A
n-Dibutylamine		D	D	D	C	A	A	A
Dicapryl Phthalate		B	B	A	A	A	A	A
Dichloroacetic Acid		D	D	D	C	A	A	A
3, 4-Dichloroaniline		D	C	B	A	A	A	A
o-Dichlorobenzene	D	A	A	A	A	A	A	A
p-Dichlorobenzene	C	A	A	A	A	A	A	A
Dichlorobutane	A	A	A	A	A	A	A	A
Dichlorobutene		B	A	A	A	A	A	A
Dichlorodifluoromethane (Freon 12)		B	B	B	—	B	B	B
Dichlorodiphenyltrichloroethane		A	A	A	A	A	A	A
Dichloroethane		A	A	A	A	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Dichloroethylene		B	A	A	A	A	A	A
Dichlorofluoromethane (Freon 21)		D	D	D	—	B	B	B
Dichloroisopropyl Ether	C	C	C	C	B	A	A	A
Dichloromethane		C	B	A	A	A	A	A
Dichloropentane		A	A	A	A	A	A	A
Dichlorophenol		B	B	A	A	A	A	A
Dichloropropane		A	A	A	A	A	A	A
Dichloropropene		B	A	A	A	A	A	A
Dichlorotetrafluoroethane (Freon 114)		B	B	B	—	B	B	B
Dicyclohexylamine	C	D	D	D	C	A	B	B
Dicyclopentadiene		D	D	D	C	A	C	C
Dieldrin (HEOD)		D	D	C	B	A	A	A
Diesel (Connediesel RME)		B	A	A	A	A	A	A
Diesel (low Sulfur-50ppm)		B	A	A	A	A	A	A
Diesel Fuel No.1		A	A	A	A	A	A	A
Diesel Fuel No.2		A	A	A	A	A	A	A
Diesel Fuel No.2/Ethanol (90/10)		A	A	A	A	A	A	A
Diesel Fuel No.2/Methanol (90/10)		B	A	A	A	A	A	A
Diesel Fuel #2/Rapeseed Methyl Ester (98%/2%)		A	A	A	A	A	A	A
Diesel Fuel #2/Rapeseed Methyl Ester (95%/5%)		A	A	A	A	A	A	A
Diesel Fuel #2/Rapeseed Methyl Ester (a) 95%/5%		B	A	A	A	A	A	A
Diesel Fuel #2/Rapeseed Methyl Ester (80%/20%)r		A	A	A	A	A	A	A
Diesel Fuel #2/Rapeseed Methyl Ester (a) 80%/20%		D	A	A	A	A	A	A
Diesel Fuel #2/Rapeseed Methyl Ester (70%/30%)		A	A	A	A	A	A	A
Diesel Fuel #2/Soy Methyl Ester (80%/20%)		A	A	A	A	A	A	A
Diesel Oil		A	A	A	A	A	A	A
Diester Lubricant (Mil-L-7808)		A	A	A	A	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Diester Synthetic Lubricating Oils		A	A	A	A	A	A	A
n,n-Diethylaniline		D	D	D	C	A	A	A
Diethyl Benzene	C	A	A	A	A	A	A	A
Diethyl Carbonate		D	D	D	D	A	A	A
Diethyl Ether	D	D	D	C	B	A	A	A
Diethyl Phthalate		B	A	A	A	A	A	A
Diethyl Sebacate	B	B	A	A	A	A	A	A
Diethyl Sulfate	B	C	C	B	B	A	A	A
Diethylamine	B	D	D	D	B	A	B	B
Diethyleneamine		D	D	D	B	A	A	A
Diethylene Glycol	A	B	B	A	A	A	A	A
Diethylene Glycol Butyl Ether		C	C	C	B	A	A	A
Diethylene Glycol Methyl Ether		C	C	C	B	A	A	A
Diethylenetriamine		D	D	D	C	A	B	B
Diethylhexylamine		D	D	D	C	A	A	A
Diethylhexyl Phthalate (DOP)		B	A	A	A	A	A	A
Diethylhexyl Sebacate (DOS)		A	A	A	A	A	A	A
Difluoroethane (Freon 152A)		D	D	D	—	B	B	B
Difluoroethylene		C	B	B	A	A	A	A
Diisobutylene		A	A	A	A	A	A	A
Diisooctyl Sebacate (DISO)		B	B	A	A	A	A	A
Diisopropyl Benzene		A	A	A	A	A	A	A
Diisopropyl Ketone		D	D	D	C	A	A	A
Diisopropyl Ether (DIPE)		A	A	A	A	A	A	A
Diisopropyl Ketone		D	D	D	C	A	A	A
Diisopropylbenzene		A	A	A	A	A	A	A
Diisopropylidene Acetone (Phorone)	D	D	D	D	C	A	A	A

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Chemicals	FKM					FFKM		
	AFLAS	VITON	High Fluorided	Peroxidize	ETP	Chemical Resistant	Thermal Resistant	High Purity
	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
2,4-dimethoxybenzaldehyde (20%)		B	A	A	A	A	A	A
Dimethyl Acetamide (DMAc)		D	D	D	A	A	A	A
Dimethyl Amine (DMA)		D	D	D	B	A	B	B
Dimethyl Aniline (Xylidine)		D	D	D	B	A	A	A
Dimethyl Ether (Methyl Ether) (Monomethyl Ether)	D	D	D	D	C	A	A	A
Dimethyl Formaldehyde		D	C	C	C	A	A	A
Dimethyl Formamide (DMF)	C	D	D	C	C	A	B	B
Dimethyl Heptanol		B	A	A	A	A	A	A
Dimethyl Hydrazine		D	D	D	C	A	B	B
Dimethyl Phenol		A	A	A	A	A	A	A
Dimethyl Phthalate		B	A	A	A	A	A	A
Dimethyl Sulfoxide (DMSO)	C	D	D	D	C	A	A	A
Dimethyl Terephthalate (DMT)		B	B	A	A	A	A	A
Dimethylcarbonate	B	D	D	D	B	A	A	A
DIN Reference Fuel FAM A	B	A	A	A	A	A	A	A
DIN Reference Fuel FAM B		C	B	A	A	A	A	A
DIN Reference Fuel FAM C		D	C	A	A	A	A	A
Dinitrotoluene (DNT)		D	C	A	A	A	A	A
Diethyl Phthalate (DOP)		A	A	A	A	A	A	A
Diethyl Sebacate (DOS)		A	A	A	A	A	A	A
Dioxane		D	D	D	C	A	A	A
Dioxolane (Dioxolans)		D	D	D	C	A	A	A
Dipentene		A	A	A	A	A	A	A
Diphenyl (Biphenyl) (Phenylbenzene)		A	A	A	A	A	A	A
Diphenyl Ether (Diphenyl Oxide)		A	A	A	A	A	A	A
Diphenyl Propane		B	A	A	A	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Diphenylamine (DPA)		D	C	C	B	A	B	B
sym-Diphenylethane		B	A	A	A	A	A	A
Dodecanal (20% Solution)		A	A	A	A	A	A	A
Dodecylbenzene		A	A	A	A	A	A	A
Dowtherm Oil		A	A	A	A	A	A	A
Drinking Water		A	A	A	A	A	A	A
Dry Cleaning Fluids		A	A	A	A	A	A	A
DTE Light Oil		A	A	A	A	A	A	A
Ehtyl Chloride	B	A	A	A	A	A	A	A
Epichlorohydrin		D	C	C	C	A	B	B
Epoxy Resins		D	C	C	B	A	A	A
Ethane		A	A	A	A	A	A	A
Ethanethiol		B	A	A	A	A	A	A
Ethanol	A	B	A	A	A	A	A	A
Ethanolamine (MEA)		D	D	D	C	A	B	B
Ether		D	D	D	C	A	A	A
Ethyl Acetate	C	D	D	D	B	A	A	A
Ethyl Acetoacetate		D	D	D	C	A	A	A
Ethyl Acrylate	C	D	D	D	C	A	A	A
Ethyl Acrylic		D	D	D	C	A	A	A
Ethyl Alcohol		B	A	A	A	A	A	A
Ethyl Aluminum Dichloride		C	B	B	B	A	A	A
Ethyl Amine		D	D	D	C	A	A	A
Ethyl Benzene	C	A	A	A	A	A	A	A
Ethyl Benzoate	C	C	B	A	A	A	A	A
Ethyl 2-Benzylacetoacetate (20%		D	C	A	A	A	A	A
Ethyl Bromide		A	A	A	A	A	A	A

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Ethyl Butyrate		A	A	A	A	A	A	A
Ethyl Cellosolve		D	D	D	B	A	A	A
Ethyl Cellulose		D	D	D	C	A	A	A
Ethyl Chloride		A	A	A	A	A	A	A
Ethyl Chlorocarbonate	B	A	A	A	A	A	A	A
Ethy Chloroformate		D	D	D	C	A	A	A
Ethyl Cyanide		D	D	D	C	A	A	A
Ethyl Cyclopentane		A	A	A	A	A	A	A
Ethyl Dibromide	B	A	A	A	A	A	A	A
Ethyl Dichloride	A	A	A	A	A	A	A	A
Ethyl Ether		D	D	D	C	A	A	A
Ethyl Formate	A	A	A	A	A	A	A	A
2-Ethyl Hexanol		A	A	A	A	A	A	A
Ethyl Isovalerate		B	A	A	A	A	A	A
Ethyl Mercaptan		B	B	A	A	A	A	A
Ethyl Morpholinestannous Octotatate (50/50 mixture)		D	D	D	C	A	A	A
Ethyl Oxalate		A	A	A	A	A	A	A
Ethyl Pentachlorobenzene		A	A	A	A	A	A	A
Ethyl Silicate		A	A	A	A	A	A	A
Ethyl Sulfate	A	D	D	D	C	A	A	A
AEthyl Tertiary Butyl Ether (ETBE)	B	C	C	C	B	A	A	A
Ethylcyclopentane	B	A	A	A	A	A	A	A
Ethylene		A	A	A	A	A	A	A
Ethylene Chloride		B	A	A	A	A	A	A
Ethylene Chlorohydrin	A	A	A	A	A	A	A	A
Ethylene Diamine	A	D	D	D	A	A	A	A
Ethylene Dibromide		B	A	A	A	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Ethylene Dichloride		A	A	A	A	A	A	A
Ethylene Glycol	A	A	A	A	A	A	A	A
Ethylene Glycol/Distilled Water		A	A	A	A	A	A	A
Ethylene Glycol Butyl Ether		D	D	D	C	A	A	A
Ethylene Glycol Butyl Ether Acetate		D	D	D	C	A	A	A
Ethylene Glycol Ethyl Ether Acetate		D	D	D	C	A	A	A
Ethylene Oxide	D	D	D	D	D	A	D	D
Ethylene Trichloride	D	A	A	A	A	A	A	A
Ethylhexyl Acrylate		D	D	D	C	A	A	A
Fatty Acids		A	A	A	A	A	A	A
Fatty Acid Ethyl Esters (FAEE)		A	A	A	A	A	A	A
Fatty Acid Methyl Esters (FAME)		A	A	A	A	A	A	A
Fatty Acid Methyl Esters a (FAME a)		D	A	A	A	A	A	A
Ferric Acetate		D	D	D	C	A	A	A
Ferric Chloride		A	A	A	A	A	A	A
Ferric Hydroxide		A	A	A	A	A	A	A
Ferric Nitrate		A	A	A	A	A	A	A
Ferric Sulfate		A	A	A	A	A	A	A
Ferrous Ammonium Sulfate		B	A	A	A	A	A	A
Ferrous Chloride		A	A	A	A	A	A	A
Ferrous Sulfate		A	A	A	A	A	A	A
Fish Oil		A	A	A	A	A	A	A
Fluorinated Cyclic Ethers		D	D	D	D	B	B	B
Fluorine		B	B	B	A	B	B	B
Fluorobenzene		A	A	A	A	A	A	A
Fluoroboric Acid		—	—	—	—	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Fluorocarbon Oils		—	—	—	—	A	A	A
Fluorolube		C	B	B	B	B	B	B
Fluorosilicic Acid		A	A	A	A	A	A	A
Fluorosilicone (FS-1280 · FS-1281)		A	A	A	A	A	A	A
Fluorothane (Ethyl Fluoride)		D	D	D	C	A	A	A
Formaldehyde(RT)	D	D	D	D	C	A	B	B
Formamide	B	C	C	C	C	A	B	B
Formic Acid	C	D	D	D	C	A	A	A
Freon 11 (Trichlorofluoromethane)	D	B	B	B	—	B	B	B
Freon 11/Sunsiso 3G (50%/50%)		C	C	B	—	B	B	B
Freon 112	D	B	B	B	—	B	B	B
Freon 113 (Trichlorotrifluoroethane)	D	C	C	C	—	B	B	B
Freon 114 (Dichlorotetrafluoroethane)	D	B	B	B	—	B	B	B
Freon 114B2	D	B	B	B	—	B	B	B
Freon 115 (Chloropentafluoroethane)	D	B	B	B	—	B	B	B
Freon 12 (Dichlorodifluoromethane)	D	B	B	B	—	B	B	B
Freon 12/ASTM No.2 Oil (50%/50%)	D	C	C	B	—	B	B	B
Freon 12/Sunsiso 4G (50%/50%)	D	C	C	B	—	B	B	B
Freon 13 (Chlorotrifluoromethane)	D	B	B	B	—	B	B	B
Freon 13B1 (Bromotrifluoromethane)	D	B	B	B	—	B	B	B
Freon 134A (Tetrafluoroethane)	D	B	B	B	—	A	B	B
Freon 14 (Tetrafluoromethane)	D	B	B	B	—	B	B	B
Freon 142B (Difluorochloroethane)	D	D	D	D	—	B	B	B
Freon 143A (1,1,1-Trifluoroethane)	D	B	B	B	—	B	B	B
Freon 152A (Difluoroethane)	D	D	D	D	—	B	B	B
Freon 21 (Dichlorofluoromethane)	D	D	D	D	—	A	A	A
Freon 218	D	B	B	B	—	B	B	B

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Freon 22 (Chlorofluoromethane)	D	D	D	D	—	B	B	B
Freon 31	D	D	D	D	—	B	B	B
Freon 32	D	D	D	D	—	B	B	B
Freon 502	D	D	D	D	—	B	B	B
Freon BF	D	B	B	B	—	B	B	B
Freon C316	D	B	B	B	—	B	B	B
Freon C318 (Octafluorotetraethylene)	D	B	B	B	—	B	B	B
Freon MCA	D	C	C	C	—	B	B	B
Freon MF	D	B	B	B	—	B	B	B
Freon PCA	D	B	B	B	—	B	B	B
Freon SMT	D	D	D	D	—	B	B	B
Freon TA	D	D	D	C	—	B	B	B
Freon TC	D	B	B	B	—	B	B	B
Freon TF	D	B	B	B	—	B	B	B
Freon TMC	D	B	B	B	—	B	B	B
Freon T-P35	D	B	B	B	—	B	B	B
Freon T-WD602	D	B	B	B	—	B	B	B
Fuel Oil	A	A	A	A	A	A	A	A
Fumaric Acid	A	A	A	A	A	A	A	A
Fuming Sulfuric Acid (Oleum)	A	C	C	C	C	A	A	A
Furan	D	D	D	D	C	A	A	A
Furfural (Furaldehyde)	D	D	D	D	C	A	B	B
Furfuryl Alcohol	B	B	A	A	A	A	A	A
Gallic Acid		A	A	A	A	A	A	A
Gasoline (Esso Golden)		A	A	A	A	A	A	A
Gasoline (Regular)		A	A	A	A	A	A	A
Gasoline (Shell Super)		A	A	A	A	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Gasoline Antioxidant No.22		A	A	A	A	A	A	A
Gasoline Premium (Leaded)		A	A	A	A	A	A	A
Gasoline Premium (Unleaded)		A	A	A	A	A	A	A
Gear Lubricant (GL-4A)		A	A	A	A	A	A	A
Gear Lubricant (GL-4B)		A	A	A	A	A	A	A
Gear Lubricant (HD-90)		A	A	A	A	A	A	A
Gear Lubricant (Lead Soap Active)		A	A	A	A	A	A	A
Gear Lubricant (SCL)		A	A	A	A	A	A	A
Gear Lubricant (Sulfur Mil-L-2105)		A	A	A	A	A	A	A
Gelatin		A	A	A	A	A	A	A
Girling Crimson (Brake Fluid)		C	B	B	B	A	A	A
Glauber's Salt		A	A	A	A	A	A	A
Gluconic Acid		C	C	B	B	A	A	A
Glucose	A	A	A	A	A	A	A	A
Glue		A	A	A	A	A	A	A
Glutamic Acid		C	C	B	B	A	A	A
Glycerol (Glycerin)		A	A	A	A	A	A	A
Glycol Ethyl Ether		D	D	D	C	A	A	A
Glycols		A	A	A	A	A	A	A
Green Sulfate Liquor		A	A	A	A	A	A	A
Halowax Oil		A	A	A	A	A	A	A
Heating Oil		A	A	A	A	A	A	A
Heavy Water		B	A	A	A	A	A	A
Helium		A	A	A	A	A	A	A
Heptachlor		B	A	A	A	A	A	A
Heptaldehyde (Heptanal)		D	D	D	C	A	A	A
n-Heptane	C	A	A	A	A	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Heptanoic Acid		A	A	A	A	A	A	A
Hexachloroacetone	D	D	D	D	B	A	A	A
Hexachloroethane		B	B	A	A	A	A	A
n-Hexadecane (Cetane)	A	A	A	A	A	A	A	A
n-Hexaldehyde		D	D	D	C	A	A	A
Hexamethylenediamine		D	D	D	C	A	B	B
Hexamethylenetetramine		D	D	D	C	A	B	B
n-Hexane	C	A	A	A	A	A	A	A
Hexanone		D	D	D	C	A	A	A
1-Hexene	C	A	A	A	A	A	A	A
Hexone (Methyl Isobutyl Ketone)		D	D	D	C	A	A	A
Hexyl Acetate		D	D	D	C	A	A	A
Hexyl Alcohol (Hexanol)		A	A	A	A	A	A	A
Hexylene Glycol		A	A	A	A	A	A	A
Hexylresorcinol		B	A	A	A	A	A	A
High Viscosity Lubricant H2		A	A	A	A	A	A	A
High Viscosity Lubricant U4		A	A	A	A	A	A	A
Hydraulic Fluid (CHX-604 · FR Fluid		B	A	A	A	A	A	A
Hydraulic Fluid (Oronite Hyjet)		D	D	D	C	A	A	A
Hydraulic Fluid (Oronite Hyjet W)		D	D	D	C	A	A	A
Hydraulic Oils (Petroleum Base)		A	A	A	A	A	A	A
Hydraulic Oil (PRL-High Temp)		A	A	A	A	A	A	A
Hydraulic Oils (Synthetic Base)		D	C	B	A	A	A	A
Hydrazine	A	D	D	D	C	A	B	B
Hydrazine Dihydrochloride		D	D	D	C	A	A	A
Hydrazine Hydrate		D	D	D	C	A	B	B
Hydriodic Acid		A	A	A	A	A	A	A

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Hydrobromic Acid	A	A	A	A	A	A	A	A
Hydrochloric Acid (Conc.)	A	A	A	A	A	A	A	A
Hydrochloric Acid/Chlorine Gas	A	C	C	A	A	A	A	A
Hydrochloric Acid (Cold · 37%)	A	A	A	A	A	A	A	A
Hydrochloric Acid (Hot · 37%)	A	C	C	A	A	A	A	A
Hydrocyanic Acid	A	A	A	A	A	A	A	A
Hydrofluoric Acid (48% · Hot)		D	D	D	C	A	A	A
Hydrofluoric Acid (75% · Hot)		D	D	D	C	A	A	A
Hydrofluoric Acid (Anhydrous)		D	D	D	C	A	A	A
Hydrofluoric Acid (Conc. Cold)		A	A	A	A	A	A	A
Hydrofluoric Acid (Conc. Hot)		D	D	D	C	A	A	A
Hydrofluosilicic Acid		A	A	A	A	A	A	A
Hydrogen (Gas)		A	A	A	A	A	A	A
Hydrogen Chloride (Gas)	A	A	A	A	A	A	A	A
Hydrogen Cyanide		B	A	A	A	A	A	A
Hydrogen Fluoride (Anhydrous)		D	D	D	C	A	A	A
Hydrogen Fluoride (Gaseous · 40%)		D	D	D	C	A	A	A
Hydrogen Fluoride (Gaseous in Water)		D	D	D	C	A	A	A
Hydrogen Peroxide (36%)	A	A	A	A	A	A	A	A
Hydrogen Peroxide (90%)	A	B	A	A	A	A	A	A
Hydrogen Sulfide (Cold · Hot)	A	D	D	C	C	A	A	A
Hydroquinone	C	C	C	B	A	A	A	A
Hydroxyacetic Acid		C	C	C	B	A	A	A
Hypochlorous Acid		A	A	A	A	A	A	A
Iodine	A	A	A	A	A	A	A	A
Iodine Pentafluoride	D	D	D	D	C	B	B	B

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Iodoform		C	C	B	B	A	A	A
Ionone (20% Solution)		D	C	A	A	A	A	A
ISO 1817 Liquid A		A	A	A	A	A	A	A
ISO 1817 Liquid B		A	A	A	A	A	A	A
ISO 1817 Liquid C		A	A	A	A	A	A	A
ISO 1817 Liquid D		B	A	A	A	A	A	A
ISO 1817 Liquid E		B	A	A	A	A	A	A
ISO 1817 Liquid 1		A	A	A	A	A	A	A
ISO 1817 Liquid 2		C	B	A	A	A	A	A
ISO 1817 Liquid 3		B	A	A	A	A	A	A
ISO 1817 Liquid 4		C	B	A	A	A	A	A
Iso dodecane		A	A	A	A	A	A	A
Isoamyl Acetate		D	D	D	C	A	A	A
Isoamyl Alcohol		A	A	A	A	A	A	A
Isoamyl Butyrate		D	D	C	B	A	A	A
Isoamyl Valerate		A	A	A	A	A	A	A
Isobutane		A	A	A	A	A	A	A
Isobutene		A	A	A	A	A	A	A
Isobutyl Acetate		D	D	D	C	A	A	A
Isobutyl Acrylate		D	D	D	C	A	A	A
Isobutyl Alcohol	A	A	A	A	A	A	A	A
Isobutyl Aldehyde	D	D	D	D	C	A	A	A
Isobutyl n-Butyrate		A	A	A	A	A	A	A
Isobutyl Chloride	D	B	B	A	A	A	A	A
Isobutyl Ether	D	D	D	D	C	A	B	B
Isobutyl Methyl Ketone		D	D	D	C	A	A	A
Isobutylene		A	A	A	A	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Isobutylphenylacetate (20% Solution)		C	B	A	A	A	A	A
Isobutyric Acid	C	D	D	C	C	A	A	A
Isodecanol		B	A	A	A	A	A	A
Isoeugenol		B	A	A	A	A	A	A
Isooctane		A	A	A	A	A	A	A
Isopentane		A	A	A	A	A	A	A
Isophorone	B	D	D	D	C	A	A	A
Isophorone (20% Solution)		D	C	A	A	A	A	A
Isopropanol	A	A	A	A	A	A	A	A
Isopropyl Acetate	D	D	D	D	B	A	A	A
Isopropyl Alcohol (IPA)		A	A	A	A	A	A	A
Isopropyl Chloride	D	A	A	A	A	A	A	A
Isopropyl Ether	D	D	D	D	C	A	A	A
Isopropylacetone		D	D	D	B	A	A	A
Isopropylamine		D	D	D	B	A	B	B
Isovaleric Acid		B	A	A	A	A	A	A
Kerosene	B	A	A	A	A	A	A	A
2-Ketobutyric Acid (20% Solution)		C	B	A	A	A	A	A
Lacquer Solvents		D	D	D	B	A	A	A
Lacquers		D	D	C	B	A	A	A
Lactams (Amino Acids)		B	A	A	A	A	A	A
Lactic Acid (85%)		A	A	A	A	A	A	A
Lactic Acid (Cold)		A	A	A	A	A	A	A
Lactic Acid (Hot)		A	A	A	A	A	A	A
Lard (Animal Fat)		A	A	A	A	A	A	A
Lavender Oil		A	A	A	A	A	A	A
Lead Acetate		D	D	D	B	A	A	A

Chemical Resistance Guide for Fluoroelastomers

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Chemicals	FKM					FFKM		
	AFLAS	VITON	High Fluorided	Peroxidize	ETP	Chemical Resistant	Thermal Resistant	High Purity
	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Lead Chloride		A	A	A	A	A	A	A
Lead Dioxide		B	A	A	A	A	A	A
Lead Nitrate		A	A	A	A	A	A	A
Lead Oxide (Red)		B	A	A	A	A	A	A
Lead Sulfamate		A	A	A	A	A	A	A
Ligroin (Benzine) (Nitrobenzine) (Pet	C	A	A	A	A	A	A	A
Lime Bleach		A	A	A	A	A	A	A
Lime Sulfur		A	A	A	A	A	A	A
d-Limonene (20% Solution)		A	A	A	A	A	A	A
Lindol (Hydraulic Fluid)		B	B	A	A	A	A	A
Linoleic Acid	A	B	B	A	A	A	A	A
Linseed Oil		A	A	A	A	A	A	A
Liquified Petroleum Gas (LPG)	B	A	A	A	A	A	A	A
Liquor		A	A	A	A	A	A	A
Lithium Bromide (Brine)		B	A	A	A	A	A	A
Lithium Chloride		A	A	A	A	A	A	A
Lithium Hydroxide	A	C	C	B	B	A	A	A
Low Sulfur Diesel (LSD)		A	A	A	A	A	A	A
Lubricating Oils (Diester)		B	A	A	A	A	A	A
Lubricating Oils (Petroleum · SAE 10	A	A	A	A	A	A	A	A
· 20 · 30 · 40 · 50)								
Lye		B	B	A	A	A	A	A
Magnesium Chloride		A	A	A	A	A	A	A
Magnesium Hydroxide		A	A	A	A	A	A	A
Magnesium Salts		A	A	A	A	A	A	A
Magnesium Sulfate (Epsom Salts)		A	A	A	A	A	A	A
Magnesium Sulfite		B	A	A	A	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Maleic Acid	A	A	A	A	A	A	A	A
Maleic Anhydride	A	D	D	C	B	A	A	A
Malic Acid		A	A	A	A	A	A	A
Mandelic Acid		D	D	D	C	A	A	A
Manganese Acetate		D	D	D	B	A	A	A
Manganese Chloride		B	A	A	A	A	A	A
Manganese Salts		A	A	A	A	A	A	A
Manganese Sulfate		A	A	A	A	A	A	A
Manganese Sulfide		A	A	A	A	A	A	A
Manganous Sulfite		A	A	A	A	A	A	A
Mercaptan		C	B	B	B	A	A	A
Mercaptobenzothiazole (MBT)	A	A	A	A	A	A	A	A
Mercuric Acetate		D	D	D	B	A	A	A
Mercuric Chloride	A	A	A	A	A	A	A	A
Mercuric Cyanide		B	A	A	A	A	A	A
Mercuric Sulfate		B	A	A	A	A	A	A
Mercurous Nitrate		B	A	A	A	A	A	A
Mercury	A	A	A	A	A	A	A	A
Mercury Vapor		A	A	A	A	A	A	A
Mesityl Oxide	D	D	D	D	C	A	A	A
Metaldehyde		D	D	D	C	A	A	A
Methacrylic Acid	B	D	D	D	C	A	A	A
Methane	B	A	A	A	A	A	A	A
Methanol (Methyl Alcohol)	A	D	C	A	A	A	A	A
Methyl Abietate		B	A	A	A	A	A	A
Methyl Acetate	D	D	D	D	B	A	A	A
Methyl Acetoacetate	D	D	D	D	B	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Methyl Acetophenone	D	D	D	D	B	A	A	A
Methyl Acid		C	B	A	A	A	A	A
Methyl Acrylate	D	D	D	D	C	A	A	A
Methyl Amine		D	D	D	C	A	A	A
Methyl Amyl Acetate		D	D	D	B	A	A	A
Methyl Amyl Alcohol		D	C	B	A	A	A	A
Methyl n-Amylketone		D	D	D	B	A	A	A
Methyl Anthranilate		B	A	A	A	A	A	A
Methyl Benzoate	B	A	A	A	A	A	A	A
Methyl Benzyl Alcohol		C	B	A	A	A	A	A
Methyl Bromide	B	A	A	A	A	A	A	A
Methyl Butyl Ketone	D	D	D	D	B	A	A	A
Methyl Carbonate	B	C	C	C	B	A	A	A
Methyl Cellosolve	A	D	D	D	B	A	A	A
Methyl Cellulose	A	D	D	D	B	A	A	A
Methyl Chloride	D	B	B	A	A	A	A	A
Methyl Chloroacetate		D	C	C	B	A	A	A
Methyl Chloroform	D	B	A	A	A	A	A	A
Methyl Chloroformate	A	B	A	A	A	A	A	A
Methyl Cyclohexanone		D	D	D	C	A	A	A
Methyl Cyclopentane	B	A	A	A	A	A	A	A
Methyl Ether (Dimethyl Ether) (Monomethyl Ether)		D	D	D	B	A	A	A
Methyl Ethyl Ketone (MEK)	D	D	D	D	B	A	A	A
Methyl Ethyl Ketone/Toluene		D	D	D	B	A	A	A
Methyl Formate	D	D	D	D	B	A	A	A
Methyl Hexyl Ketone		D	D	D	B	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Methyl Isobutyl Ketone (MIBK)	D	D	D	D	B	A	A	A
Methyl Isocyanate		D	C	B	B	A	A	A
Methyl Isopropyl Ketone		D	D	D	B	A	A	A
Methyl Mercaptan		C	C	A	A	A	A	A
Methyl Methacrylate	D	D	D	D	B	A	A	A
Methyl Oleate	A	B	A	A	A	A	A	A
Methyl Phenylacetate		D	D	D	B	A	A	A
Methyl Phenyl Silicone Fluid		A	A	A	A	A	A	A
Methyl Salicylate (Oil of Wintergreen)		B	B	A	A	A	A	A
Methyl Tert Butyl Mther (MTBE)	C	D	D	D	B	A	A	A
Methylanisole (20% Solution)		B	B	A	A	A	A	A
Methylene Blue		D	D	D	C	A	A	A
Methylene Bromide		C	B	B	B	A	A	A
Methylene Chloride		B	B	B	A	A	A	A
Milk	A	A	A	A	A	A	A	A
Mineral Oil	A	A	A	A	A	A	A	A
Molybdenum Disulfide Grease	A	B	A	A	A	A	A	A
Monobromobenzene	D	A	A	A	A	A	A	A
Monochloroacetic Acid		D	D	D	B	A	A	A
Monochlorobenzene	D	B	A	A	A	A	A	A
Monoethanolamine		D	D	D	B	A	B	B
Monomethyl Aniline	B	B	B	B	B	A	B	B
Monomethyl Ether (Methyl Ether) (Dimethyl Ether)		A	A	A	A	A	A	A
Monomethyl Formamide		D	C	B	B	A	A	A
Monomethyl Hydrazine	B	D	D	D	B	A	B	B
Monomethylaniline		C	B	B	A	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Monovinyl Acetylene	C	A	A	A	A	A	A	A
Mustard Gas		A	A	A	A	A	A	A
Myristic Acid		A	A	A	A	A	A	A
Naphtha	C	A	A	A	A	A	A	A
Naphthalene	C	A	A	A	A	A	A	A
Naphthalene Chloride		A	A	A	A	A	A	A
Naphthalenic Acid		A	A	A	A	A	A	A
Naphthylamine		C	C	C	A	A	B	B
Natural Gas	A	A	A	A	A	A	A	A
Neatsfoot Oil		A	A	A	A	A	A	A
Neon		A	A	A	A	A	A	A
Nerolidol (20% Solution)		A	A	A	A	A	A	A
Neville Acid		A	A	A	A	A	A	A
Nickel Acetate		D	D	D	B	A	A	A
Nickel Ammonium Sulfate		B	A	A	A	A	A	A
Nickel Chloride		A	A	A	A	A	A	A
Nickel Nitrate		A	A	A	A	A	A	A
Nickel Sulfate		A	A	A	A	A	A	A
Nicotine		B	A	A	A	A	A	A
Niter Cakes	A	B	A	A	A	A	A	A
Nitric Acid (Dilute · 0~50%)		B	A	A	A	A	A	A
Nitric Acid (Conc. · 50~85%)	B	B	B	A	A	A	A	A
Nitric Acid (Red Fuming · >85%)		C	B	B	B	A	B	B
Nitrobenzene (Petroleum Ether)	A	C	B	A	A	A	A	A
Nitroethane		D	D	D	C	A	A	A
Nitrogen		A	A	A	A	A	A	A
Nitrogen Dioxide		D	D	D	B	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Nitrogen Oxides		D	D	D	C	A	A	A
Nitrogen Tetroxide	C	D	D	D	C	C	C	C
Nitromethane	C	D	D	D	C	A	A	A
p-Nitrophenol		D	D	D	C	A	A	A
Nitropropane	B	D	D	D	C	A	A	A
p-Nitrotoluene		C	C	C	B	A	A	A
o-Nitrotoluene		C	C	C	B	A	A	A
Nitrous Oxide		C	C	C	B	A	A	A
Nonane		A	A	A	A	A	A	A
Octachlorotoluene		A	A	A	A	A	A	A
n-Octadecane	A	A	A	A	A	A	A	A
Octanal		D	D	D	C	A	A	A
n-Octane		A	A	A	A	A	A	A
n-Octyl Acetate		D	D	D	B	A	A	A
n-Octyl Alcohol (Octanol)	A	A	A	A	A	A	A	A
n-Octyl Chloride		B	A	A	A	A	A	A
Octyl Phthalate		C	B	B	A	A	A	A
Oil (American LDO SAE 10W30)		A	A	A	A	A	A	A
Olefins		A	A	A	A	A	A	A
Oleic Acid	A	B	B	A	A	A	A	A
Olein		D	D	D	C	A	A	A
Oleum		B	A	A	A	A	A	A
Oleum (67%)		B	A	A	A	A	A	A
Oleyl Alcohol		A	A	A	A	A	A	A
Olive Oil		A	A	A	A	A	A	A
Orthochloro Ethyl Benzene		B	A	A	A	A	A	A
Oxalic Acid	A	A	A	A	A	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Oxygen (Gas · Cold)		A	A	A	A	A	A	A
Oxygen (Gas · Hot)		B	B	A	A	A	A	A
Oxygen (Liquid)		D	D	D	D	A	A	A
Ozonated Deionized Water		C	A	A	A	A	A	A
Ozone	A	A	A	A	A	A	A	A
Paint Thinner (Duco)		C	B	A	A	A	A	A
Palmitic Acid (Hexadecanoic Acid)	A	A	A	A	A	A	A	A
Paraffins		A	A	A	A	A	A	A
Paraldehyde		D	D	D	C	A	A	A
Par-al-Ketone		D	D	D	C	A	A	A
Peanut Oil		A	A	A	A	A	A	A
Pelargonic Acid		B	A	A	A	A	A	A
Pentachloroethane		B	A	A	A	A	A	A
Pentachlorophenol		B	A	A	A	A	A	A
Pentaerythritol	A	A	A	A	A	A	A	A
n-Pentane		A	A	A	A	A	A	A
Pentoxol		D	D	D	C	A	A	A
Pentoxone		D	D	D	C	A	A	A
Perchloric Acid	A	A	A	A	A	A	A	A
Perchloroethylene		A	A	A	A	A	A	A
Perchloryl Fluoride		D	D	D	C	A	A	A
Petrolatum		A	A	A	A	A	A	A
Petroleum Ether		B	A	A	A	A	A	A
Petroleum (> 250°F · 121°C)		C	C	B	A	A	A	A
Petroleum (< 250°F · 121°C)		B	B	A	A	A	A	A
Petroleum (Crude)		B	A	A	A	A	B	B
Phenol	A	A	A	A	A	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Phenolsulfonic Acid (65%)		A	A	A	A	A	A	A
Phenyl Acetate		D	D	D	B	A	A	A
Phenylbenzene	C	A	A	A	A	A	A	A
Phenylene Diamine (PDA)		D	D	D	C	A	B	B
Phenylethyl Ether	D	D	D	D	B	A	A	A
Phenylhydrazine	A	C	C	C	B	A	A	A
Phenylmercuric Acetate		D	D	D	C	A	A	A
Phorone (Diisopropylidene Acetone)	D	D	D	D	C	A	A	A
Phosgene		D	D	D	D	A	A	A
Phosphoric Acid	A	A	A	A	A	A	A	A
Phosphorous Trichloride	A	A	A	A	A	A	A	A
Phthalic Acid		B	B	A	A	A	A	A
Phthalic Anhydride	C	D	D	D	C	A	A	A
Pickling Solution		A	A	A	A	A	A	A
Picric Acid		A	A	A	A	A	A	A
Pine Oil		A	A	A	A	A	A	A
Pine Tar		A	A	A	A	A	A	A
Pinene	A	A	A	A	A	A	A	A
Piperidine		D	D	D	C	A	A	A
Plating Solution (Chrome)		A	A	A	A	A	A	A
Plating Solution (Others)		A	A	A	A	A	A	A
Polyethylene Glycol	A	A	A	A	A	A	A	A
Polyvinyl Acetate Emulsion	A	C	C	C	C	A	A	A
Potassium Acetate		D	D	D	C	A	A	A
Potassium Acetate Solution (20%)		A	A	A	A	A	A	A
Potassium Bicarbonate		A	A	A	A	A	A	A
Potassium Bisulfate		A	A	A	A	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Potassium Bisulfite		A	A	A	A	A	A	A
Potassium Bromide		B	A	A	A	A	A	A
Potassium Carbonate		B	A	A	A	A	A	A
Potassium Chlorate		B	A	A	A	A	A	A
Potassium Chloride		A	A	A	A	A	A	A
Potassium Chromate		B	A	A	A	A	A	A
Potassium Cuprocyanide		A	A	A	A	A	A	A
Potassium Cyanide		A	A	A	A	A	A	A
Potassium Dichromate		A	A	A	A	A	A	A
Potassium Ferricyanide		B	A	A	A	A	A	A
Potassium Fluoride		A	A	A	A	A	A	A
Potassium Hydroxide (30%)		D	D	D	A	A	A	A
Potassium Hydroxide (Saturated)	A	D	D	D	A	A	A	A
Potassium Hypochlorite		D	D	D	B	A	A	A
Potassium Iodide		A	A	A	A	A	A	A
Potassium Nitrate		A	A	A	A	A	A	A
Potassium Perchlorate		A	A	A	A	A	A	A
Potassium Permanganate		B	B	A	A	A	A	A
Potassium Permanganate (30%)		B	A	A	A	A	A	A
Potassium Silicate		A	A	A	A	A	A	A
Potassium Stearate		B	A	A	A	A	A	A
Potassium Sulfate		A	A	A	A	A	A	A
Potassium Sulfide		A	A	A	A	A	A	A
Potassium Sulfite		A	A	A	A	A	A	A
PRESTONE Antifreeze		B	A	A	A	A	A	A
Producer Gas		A	A	A	A	A	A	A
Propane	A	A	A	A	A	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Propionaldehyde		D	D	D	C	A	A	A
Propionitrile	A	D	D	D	C	A	A	A
Propionic Acid		D	C	B	B	A	A	A
n-Propyl Acetate	D	D	D	D	C	A	A	A
n-Propyl Acetone (Methyl Butyl		D	D	D	B	A	A	A
Propyl Alcohol (Propanol)		A	A	A	A	A	A	A
Propyl Nitrate		D	D	D	B	A	A	A
n-Propylamine		D	D	D	C	A	B	B
N-Propylbenzene		A	A	A	A	A	A	A
n-Propylbromide (90%)		B	B	B	C	A	A	A
Propylene	A	A	A	A	A	A	A	A
Propylene Dichloride		B	A	A	A	A	A	A
Propylene Glycol	A	A	A	A	A	A	A	A
Propylene Oxide	C	D	D	D	D	A	C	C
n-Propyl Nitrate		D	D	C	B	A	A	A
n-Propyl Propionate		B	A	A	A	A	A	A
Pydraul (10E + 29 ELI + 30E + 50E + 65E + 90E + 115E + 150 + 312 + A200 + 230C + 312C + 540C + AC + 5.0)		A	A	A	A	A	A	A
Pydraul (60)		C	B	A	A	A	A	A
Pyranol (Transformer Oil)		A	A	A	A	A	A	A
Pyridine	B	D	D	D	C	A	A	A
Pyroligneous Acid		D	D	D	C	A	A	A
Pyrrole		D	D	C	B	A	A	A
Quinine		A	A	A	A	A	A	A
Quinizarin		A	A	A	A	A	A	A
Quinoline		A	A	A	A	A	A	A
Quinone		B	B	A	A	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Radiation		D	D	D	C	A	A	A
Raffinate		A	A	A	A	A	A	A
Rapeseed Methyl Ester (RME)		A	A	A	A	A	A	A
Rapeseed Methyl Ester a (RME a)		D	A	A	A	A	A	A
Rapeseed Oil		A	A	A	A	A	A	A
Red Oil (MIL-H-5606)		A	A	A	A	A	A	A
Resorcinol	A	A	A	A	A	A	A	A
Riboflavin		A	A	A	A	A	A	A
Ricinoleic Acid		A	A	A	A	A	A	A
RJ-1 (MIL-F-25558)		A	A	A	A	A	A	A
Rosin		A	A	A	A	A	A	A
RP-1 (MIL-F-25576)		A	A	A	A	A	A	A
Sal Ammoniac		A	A	A	A	A	A	A
Salicylic Acid	A	A	A	A	A	A	A	A
Salt Water		A	A	A	A	A	A	A
Sebacic Acid		B	A	A	A	A	A	A
Service Fluid 101		B	A	A	A	A	A	A
Sewage		A	A	A	A	A	A	A
Shell Air (GG1034 WTR)		A	A	A	A	A	A	A
Shell Air Turbine Oil No. 505 (Mil-L- 23699)		A	A	A	A	A	A	A
Shell F.R. Fluid		A	A	A	A	A	A	A
Shell Iris 902		A	A	A	A	A	A	A
Shell Rotella T 15W40 Diesel Oil		A	A	A	A	A	A	A
Shell Spirax EP90		A	A	A	A	A	A	A
Shell Spirax HD (Rear Axle Additive)		A	A	A	A	A	A	A
Shell Super Oil (STP Oil Additive)		A	A	A	A	A	A	A
Shell Tellus 27 (Petro Base)		A	A	A	A	A	A	A

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	AFLAS	VITON	High Fluorided	Peroxidize	ETP	Chemical Resistant	Thermal Resistant	High Purity
	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Shell Tellus 33		A	A	A	A	A	A	A
Shell Turbine N0.307		A	A	A	A	A	A	A
Shell UMF (5% Aromatic)		A	A	A	A	A	A	A
Shellac		B	A	A	A	A	A	A
Shinol TWS-R		B	A	A	A	A	A	A
Silicate Esters	A	A	A	A	A	A	A	A
Silicone Greases		A	A	A	A	A	A	A
Silicone Oils	A	A	A	A	A	A	A	A
Silver Cyanide		B	A	A	A	A	A	A
Silver Nitrate		A	A	A	A	A	A	A
Silver Sulfate		B	A	A	A	A	A	A
Skydrol (500A · 500B · LD)		D	D	D	C	A	A	A
Skydrol 7000		C	B	A	A	A	A	A
Soap Solutions		A	A	A	A	A	A	A
SOC-100 (SAE 10W40 Synthetic Engine Oil)		A	A	A	A	A	A	A
Soda Ash		A	A	A	A	A	A	A
Sodium (Liquid)		D	D	D	D	D	D	D
Sodium Acetate		D	D	D	B	A	A	A
Sodium Acetate (2.0 M Solution)		A	A	A	A	A	A	A
Sodium Aluminate		B	A	A	A	A	A	A
Sodium Arsenate		B	A	A	A	A	A	A
Sodium Benzoate		B	A	A	A	A	A	A
Sodium Bicarbonate (Baking Soda)		A	A	A	A	A	A	A
Sodium Bisulfate		A	A	A	A	A	A	A
Sodium Bisulfite		A	A	A	A	A	A	A
Sodium Borate		A	A	A	A	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Sodium Bromide		B	A	A	A	A	A	A
Sodium Carbonate		A	A	A	A	A	A	A
Sodium Chlorate		B	A	A	A	A	A	A
Sodium Chloride		A	A	A	A	A	A	A
Sodium Chloroacetate		C	C	B	B	A	A	A
Sodium Chromate		B	A	A	A	A	A	A
Sodium Cyanide		A	A	A	A	A	A	A
Sodium Diacetate		D	D	D	B	A	A	A
Sodium Dichromate		B	A	A	A	A	A	A
Sodium Ferricyanide		A	A	A	A	A	A	A
Sodium Ferrocyanide		A	A	A	A	A	A	A
Sodium Fluoride		A	A	A	A	A	A	A
Sodium Hydrosulfide		B	A	A	A	A	A	A
Sodium Hydroxide	A	B	A	A	A	A	A	A
Sodium Hypochlorite (Chlorox)		A	A	A	A	A	A	A
Sodium Iodide		B	A	A	A	A	A	A
Sodium Metaphosphate		A	A	A	A	A	A	A
Sodium Metasilicate		B	A	A	A	A	A	A
Sodium Nitrate		A	A	A	A	A	A	A
Sodium Perborate		A	A	A	A	A	A	A
Sodium Peroxide		B	A	A	A	A	A	A
Sodium Phosphate (Dibasic · Monobasic · Tribasic)		A	A	A	A	A	A	A
Sodium Salts		A	A	A	A	A	A	A
Sodium Sesquisilicate		B	A	A	A	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Sodium Silicate		A	A	A	A	A	A	A
Sodium Sulfate		A	A	A	A	A	A	A
Sodium Sulfide		A	A	A	A	A	A	A
Sodium Sulfite		A	A	A	A	A	A	A
Sodium Thiocyanate		A	A	A	A	A	A	A
Sodium Thiosulfate		A	A	A	A	A	A	A
Sorbitol		B	A	A	A	A	A	A
Sour Crude Oil		D	C	C	B	A	A	A
Sour Natural Gas		D	C	C	B	A	A	A
Soybean Oil		A	A	A	A	A	A	A
Soy Methyl Ester		A	A	A	A	A	A	A
Stannic Chloride		A	A	A	A	A	A	A
Stannous Chloride		A	A	A	A	A	A	A
Stannous Fluoride		A	A	A	A	A	A	A
Steam (1.4 Mpa)		B	A	A	A	A	B	B
Steam (80 psi)		B	A	A	A	A	B	B
Steam (162 psi)		B	A	A	A	A	B	B
Steam (< 275°F · 135°C)	A	D	D	B	B	A	B	B
Steam (> 275°F · 135°C)	A	D	D	D	C	A	C	C
Steam (Atmospheric)		B	A	A	A	A	A	A
Stearic Acid	A	A	A	A	A	A	A	A
Stoddard Solvent (ASTM D-484-52)		A	A	A	A	A	A	A
Strontium Acetate		D	D	D	C	A	A	A
Styrene (Monomer)	D	B	A	A	A	A	A	A
Suberic Acid		B	A	A	A	A	A	A
Succinaldehyde		D	D	D	C	A	A	A
Succinic Acid		B	A	A	A	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Sucrose Solution		A	A	A	A	A	A	A
Sulfamic Acid		B	B	A	A	A	A	A
Sulfer Chloride	A	A	A	A	A	A	A	A
Sulfite Liquors		B	A	A	A	A	A	A
Sulfolane	A	B	B	B	B	A	A	A
Sulfole		A	A	A	A	A	A	A
Sulfur (Molten 250F)	A	A	A	A	A	A	A	A
Sulfur Chloride		A	A	A	A	A	A	A
Sulfur Dioxide (Gas · Dry)	B	B	B	A	A	A	A	A
Sulfur Dioxide (Liquified)	B	B	B	A	A	A	A	A
Sulfur Dioxide (Wet)	B	B	B	A	A	A	A	A
Sulfur Hexafluoride	C	D	D	C	C	B	B	B
Sulfur Tetrafluoride		D	C	B	B	B	B	B
Sulfur Trioxide (Dry)	B	A	A	A	A	A	A	A
Sulfuric Acid (20% Oleum)		A	A	A	A	A	A	A
Sulfuric Acid (Conc.)		A	A	A	A	A	A	A
Sulfuric Acid (Dilute)		A	A	A	A	A	A	A
Sulfuric Acid (Fuming)		B	A	A	A	A	A	A
Sulfurous Acid		C	B	B	B	A	A	A
Sulfurous Acid (5% Sulfur Dioxide)		D	D	C	C	A	A	A
Tallow		A	A	A	A	A	A	A
Tannic Acid	A	A	A	A	A	A	A	A
Tar (Bituminous)		A	A	A	A	A	A	A
Tartaric Acid (Dioxysuccinic Acid)	A	B	A	A	A	A	A	A
Terephthalic Acid		A	A	A	A	A	A	A
Terpineol	A	A	A	A	A	A	A	A
Terpinyl Acetate		D	D	D	B	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Tertiary Butyl Alcohol	A	A	A	A	A	A	A	A
Tertiary Butyl Catechol	A	A	A	A	A	A	A	A
Tertiary Butyl Mercaptan	A	A	A	A	A	A	A	A
Tetrabromoethane	C	A	A	A	A	A	A	A
Tetrabromomethane		A	A	A	A	A	A	A
Tetrabutyl Titanate	A	A	A	A	A	A	A	A
Tetrachloroethane	D	A	A	A	A	A	A	A
Tetrachloroethylene	D	A	A	A	A	A	A	A
Tetraethyl Lead	C	A	A	A	A	A	A	A
Tetrahydrofuran (THF)	D	D	D	D	C	A	A	A
Tetrahydronaphthalene (TETRALIN)		B	A	A	A	A	A	A
Tetralin	D	A	A	A	A	A	A	A
Tert-Amyl Ethyl Ether (TAEE)		A	A	A	A	A	A	A
Tert-Amyl Methyl Ether (TAME)		D	D	B	A	A	A	A
THIOKOL TP-90B		B	A	A	A	A	A	A
THIOKOL TP-95		B	A	A	A	A	A	A
Thionyl Chloride		B	B	A	A	A	A	A
Thiophene		D	C	C	C	A	A	A
Tin Chloride	A	A	A	A	A	A	A	A
Titanium Dioxide		B	A	A	A	A	A	A
Titanium Tetrachloride	B	A	A	A	A	A	A	A
Toluene	D	B	A	A	A	A	A	A
Toluene/Pyridine (95%/5%)		B	B	A	A	A	A	A
Toluene Diisocyanate (TDI)	D	D	D	C	C	A	A	A
Toluene-2,4 Diisocyanate/Toluene-2,6 Diisocyanate (80%/20%)		B	A	A	A	A	A	A
p-Toluidine		C	C	C	B	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Tosylarginine Methyl Ester	D	D	D	D	C	A	A	A
Transformer Oil		A	A	A	A	A	A	A
Transmission Fluid (ATF1 · ATF2 · ATF3 · ATF4 · ATF5 · Ford · Satra EC-3686 · Super 284 OS10281)		A	A	A	A	A	A	A
Transmission Fluid Type A		A	A	A	A	A	A	A
Triacetin	D	D	D	C	B	A	A	A
Trialkyl Pentaborane (HEF-2)		A	A	A	A	A	A	A
Triaryl Phosphate		A	A	A	A	A	A	A
Tributoxy Ethyl Phosphate	A	B	A	A	A	A	A	A
Tributyl Citrate		D	D	D	C	A	A	A
Tributyl Mercaptan		B	A	A	A	A	A	A
Tributyl Phosphate	B	D	D	D	C	A	A	A
Tributylamine		D	D	D	C	A	A	A
Trichloroacetic Acid (TCA)	C	D	C	B	B	A	A	A
1,2,3-Trichlorobenzene		B	B	A	A	A	A	A
Trichloroethane		A	A	A	A	A	A	A
Trichloroethylene (TCE)		A	A	A	A	A	A	A
Trichloroethylene/Tetrachloroethylene		A	A	A	A	A	A	A
Trichlorofluoromethane (FREON 11)		B	B	B	—	B	B	B
1,2,3-Trichloropropane		A	A	A	A	A	A	A
Trichlorotrifluoroethane (FREON 113)		B	B	B	—	B	B	B
Tricresyl Phosphate	A	A	A	A	A	A	A	A
Triethanolamine (TEA)	A	D	D	D	C	A	B	B
Triethyl Borane		A	A	A	A	A	A	A
Triethylaluminum		B	A	A	A	A	A	A
Triethylamine		D	D	D	C	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Triethylene Glycol (TEG)		B	A	A	A	A	A	A
Triethylenetetramine (TETA)		D	D	D	C	A	B	B
Trifluoromethane (Fluoroform,	B	B	B	B	B	B	B	B
Trimethylaluminum (TMAI)		C	B	B	A	A	A	A
Trimethylamine (TMA)		D	D	D	C	A	A	A
2,2,4-Trimethylpentane		A	A	A	A	A	A	A
Trinitrotoluene (TNT)	B	B	A	A	A	A	A	A
Trioctyl Phosphate	A	B	B	A	A	A	A	A
Trioxane		B	A	A	A	A	A	A
Tung Oil (China Wood Oil)		A	A	A	A	A	A	A
Turbine Oil No.15 (Mil-L-7808A)		A	A	A	A	A	A	A
Turpentine		B	A	A	A	A	A	A
Unsymmetrical Dimethyl Hydrazine (UDMH)		D	D	D	C	A	B	B
Ultra Low Sulfur Diesel (ULSD)			A	A	A	A	A	A
2-Undecanone (20% Solution)		D	C	A	A	A	A	A
n-Valeraldehyde		D	D	D	C	A	A	A
Valeric Acid		A	A	A	A	A	A	A
Varnish		A	A	A	A	A	A	A
Veedol Hypoid Oil		A	A	A	A	A	A	A
Vegetable Oils		A	A	A	A	A	A	A
Versilube (F44 · F50 · F55)		A	A	A	A	A	A	A
Vinegar		A	A	A	A	A	A	A
Vinyl Acetate		D	D	D	C	A	A	A
Vinyl Acetylene		B	A	A	A	A	A	A
Vinyl Chloride		B	A	A	A	A	A	A
Vinyl Fluoride		B	A	A	A	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Vinylidene Chloride		A	A	A	A	A	A	A
Wagner 21B Brake Fluid		D	C	C	B	A	A	A
Water		A	A	A	A	A	A	A
Whiskey & Wines		A	A	A	A	A	A	A
White Liquor		A	A	A	A	A	A	A
White Oil		A	A	A	A	A	A	A
White Pine Oil		A	A	A	A	A	A	A
Wolmar Salts		A	A	A	A	A	A	A
Wood Alcohol		D	B	A	A	A	A	A
Wood Oil		A	A	A	A	A	A	A
Xenon		A	A	A	A	A	A	A
Xylene	D	B	A	A	A	A	A	A
Xylidine (Di-methyl Aniline)		D	D	C	C	A	A	A
Xylol		A	A	A	A	A	A	A
Yeast		A	A	A	A	A	A	A
Zeolites		A	A	A	A	A	A	A
Zinc Acetate		D	D	D	B	A	A	A
Zinc Ammonium Chloride		C	C	B	B	A	A	A
Zinc Carbonate		A	A	A	A	A	A	A
Zinc Chloride		A	A	A	A	A	A	A
Zinc Chromate		C	C	B	B	A	A	A
Zinc Cyanide		C	C	B	B	A	A	A
Zinc Diethyldithiocarbamate		C	C	C	B	A	A	A
Zinc Hydrosulfite		C	C	B	B	A	A	A
Zinc Nitrate		A	A	A	A	A	A	A
Zinc Oxide		A	A	A	A	A	A	A
Zinc Phenolsulfonate		C	C	B	B	A	A	A

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	FLS-5	FLS-2	FLS-3	FLS-4	FLS-6	FLS-7	FLS-8	FLS-9
Zinc Phosphate		A	A	A	A	A	A	A
Zinc Salts		A	A	A	A	A	A	A
Zinc Stearate		C	C	B	A	A	A	A
Zinc Sulfate		A	A	A	A	A	A	A
Zinc Sulfide		C	C	B	B	A	A	A
Zirconium Nitrate		A	A	A	A	A	A	A

※Note: This table is based on our experience and existing published data. These results are based on ambient pressure and 100% concentrations.

The result will change according to the specific conditions for application and the mixture of chemicals are not always averaged.