

RESISTENZE CHIMICHE

La resistenza chimica dei manufatti in gomma è disciplinata dalla normativa ISOTR7620:2005
Di seguito riportiamo una guida di uso generale e si basa su tests effettuati a temperatura ambiente.

Se siete interessati a resistenze chimiche specifiche riguardanti oltre 3000 sostanze chimiche alle diverse temperature e concentrazioni di utilizzo. Interpellateci presentandovi e dettagliando la richiesta.

Camisana non garantisce e non si ritiene responsabile per le informazioni riportate ed il loro utilizzo.

A - Consigliato B - Effetto da Lieve a Moderato C - Effetto da Moderato a Grave D - Non Consigliato *Dati Insufficienti									
Sostanze Chimiche	Gomma Naturale, Isoprene (NR, IR)	Stirene, Butadiene (SBR)	Butl (IIR)	EPDM, EPM	Nitrile (NBR)	Neoprene (CR)	Hypalon (CSM)	Silicone (SI,VMQ)	Fluoroelastomero (FKM)
Acetaldehyde	B	C	A	A	D	C	C	B	D
Acetamide	D	D	A	A	A	B	B	B	B
Acetic Acid, Glacial	B	B	B	A	C	D	C	B	C
Acetic Acid, 30%	B	B	B	A	B	A	B	A	B
Acetic Anhydride	B	B	B	B	C	B	A	C	D
Acetone	C	C	A	A	D	C	B	C	
Acetophenone	D	D	A	A	D	D	D	D	D
Acetyl Chloride	D	D	D	D	D	D	D	C	A
Acetylene	B	B	A	A	A	B	B	B	A
Acrylonitrile	D	D	D	D	D	D	C	D	C
Adipic Acid	A	A	A	A	A	A	*		A
Alkazene (Dibromoethylbenzen)	D	D	D	D	D	D	D	D	B
Alum-NH3-Cr-K (Aqueous)	A	A	A	A	A	A	A	A	D
Aluminum Acetate (Aqueous)	A	B	A	A	B	B	A	D	D
Aluminum Chloridemilio (Aqueous)	A	A	A	A	A	A	A	B	A
Aluminum Fluoride (Aqueous)	B	A	A	A	A	A	A	B	A
Aluminum Nitrate (Aqueous)	A	A	A	A	A	A	A	B	A
Aluminum Phosphate (Aqueous)	A	A	A	A	A	A	A	A	A
Aluminum Sulfate (Aqueous)	A	A	A	A	A	A	A	A	A



A - Consigliato B - Effetto da Lieve a Moderato C - Effetto da Moderato a Grave D - Non Consigliato *Dati Insufficienti

Sostanze Chimiche	Gomma Naturale, Isoprene (NR, IR)	Stirene, Butadiene (SBR)	Butl (IIR)	EPDM, EPM	Nitrile (NBR)	Neoprene (CR)	Hypalon (CSM)	Silicone (SI,VMQ)	Fluoroelastomero (FKM)
Ammonia Anhydrous	D	D	A	A	B	A	B	C	D
Ammonia Gas (cold)	A	A	A	A	A	A	A	A	D
Ammonia Gas (hot)	D	D	B	B	D	B	B	A	D
Ammonium Carbonate (Aqueous)	A	A	A	*	D	A	*	*	A
Ammonium Chloride (Aqueous)	A	A	A	A	A	A	A		A
Ammonium Hydroxide (conc.)	D	D	A	A	D	A	A	A	B
Ammonium Nitrate (Aqueous)	C	B	A	A	A	A	A	*	A
Ammonium Nitrite (Aqueous)	A	A	A	A	A	A	A	B	A
Ammonium Persulfate (Aqueous)	A	D	A	A	D	A	A	*	A
Ammonium Phosphate (Aqueous)	A	A	A	A	A	A	A	A	A
Ammonium Sulfate (Aqueous)	A	A	A	A	A	A	A	*	B
Amyl Acetate (Banana Oil)	D	D	C	C	D	D	D	D	D
Amyl Alcohol	B	B	A	A	B	B	A	D	B
Amyl Borate	D	D	D	D	A	A	A	*	A
Amyl Chloronapthalene	D	D	D	D	D	D	D	D	A
Amyl Napthalene	D	D	D	D	D	D	D	D	A
Aniline	D	D	A	A	D	D	C	D	C
Aniline Dyes	B	B	B	A	D	B	B	C	B
Aniline Hydrochloride	B	D	B	B	B	D	D	D	B
Animal Fats	D	D	B	B	A	B	B	B	A
Ansul Ether (Anesthetics)	D	D	C	C	C	D	D	D	D
Aqua Regia	D	D	D	C	D	D	A	D	B
Aroclor, 1248	D	D	C	C	C	D	A	B	A
Aroclor, 1254	D	D	D	C	D	D	D	C	A
Aroclor, 1260	A	A	A	A	A	A	A	B	A
Arsenic Acid	B	A	A	A	A	A	A	A	A
Arsenic Trichloride (Aqueous)	D	D	C	C	A	A	*	*	D



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Askarel	D	D	D	D	B	D	D	D	A
Asphalt	D	D	D	D	B	B	B	D	A
Banana Oil (Amyl Acetate)	D	D	C	C	D	D	D	D	D
Barium Chloride (Aqueous)	A	A	A	A	A	A	A	A	A
Barium Hydroxide (Aqueous)	A	A	A	A	A	A	A	A	A
Barium Sulfate (Aqueous)	A	A	A	A	A	A	A	A	A
Barium Sulfide (Aqueous)	A	B	A	A	A	A	A	A	A
Beer	A	A	A	A	A	A	A	A	A
Beet Sugar Liquors	A	A	A	A	A	B	A	A	A
Benzaldehyda	D	D	A	A	D	D	A	B	D
Benzene	D	D	D	D	D	D	D	D	A
Benzene Sulfonic Acid (Nitrobenzine) (Pet Ether)	D	D	D	C	D	B	A	D	A
Benzine (Ligroin)	D	D	D	D	A	B	C	D	A
Benzoic Acid	D	D	D	C	C	D	D	C	A
Benzoyl Chloride	D	D	D	D	D	D	D	*	B
Benzyl Alcohol	D	D	A	A	D	B	B	B	A
Benzyl Chloride	D	D	B	B	D	D	D	*	A
Benzyl Benzoate	D	D	D	D	D	D	D	D	A
Biphenyl (Diphenyl) (Phenylbenzene)	D	D	D	D	D	D	D	D	A
Blast Furnace Gas	D	D	D	D	D	D	D	A	A
Bleach Solution	D	D	A	A	D	D	A	B	A
Borax	B	B	A	A	B	A	A	B	A
Bordeaux Mixture	B	B	A	A	B	B	A	B	A
Brine	A	A	A	A	A	A	A	A	A
Bromine-Anydrous	D	D	D	D	D	D	D	D	A
Bromine Trifluoride	D	D	D	D	D	D	D	D	D
Bromine Water	D	D	C	B	D	D	A	D	A
Bromobenzene	D	D	D	D	D	D	D	D	A
Bunker Oil	D	D	D	D	A	D	D	B	A



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Sostanze Chimiche	Gomma Naturale, Isoprene (NR, IR)	Stirene, Butadiene (SBR)	Butl (IIR)	EPDM, EPM	Nitrile (NBR)	Neoprene (CR)	Hypalon (CSM)	Silicone (SI,VMQ)	Fluoroelastomero (FKM)
Butadine	D	D	D	C	D	D	C	D	A
Butter (Animal Fat)	D	D	B	A	A	B	B	B	A
Butyl Acetate	D	D	C	C	D	D	D	D	D
Butyl Acetate Ricinoleate	D	D	A	A	C	B	B	*	A
Butyl Acrylate	D	D	D	D	D	D	D	*	D
Butyl Alcohol	A	A	B	B	A	A	A	B	A
Butyl Amine	D	D	C	B	C	D	D	D	D
Butyl Benzoate	C	B	B	B	D	D	D	*	A
Butyl Carbitol	D	D	A	A	D	C	B	D	C
Butyl Cellosolve	D	D	A	A	C	C	B	*	D
Butyl Oleate	D	D	B	B	D	D	D	*	A
Butyl Stearate	D	D	C	C	B	D	D	*	A
Butylene	D	D	D	D	B	C	D	D	A
Butyraldehyde	D	D	B	B	D	C	D	D	D
Calcium Acetate (Aqueous)	A	D	A	A	B	B	B	D	D
Calcium Bisulfate (Aqueous)	D	D	D	D	D	A	A	A	A
Calcium Chloride (Aqueous)	A	A	A	A	A	A	A	A	A
Calcium Hydroxide (Aqueous)	A	A	A	A	A	A	A	A	A
Calcium Hypochlorite (Aqueous)	C	C	A	A	B	C	A	B	A
Calcium Nitrate (Aqueous)	A	A	A	A	A	A	A	B	A
Calcium Sulfide (Aqueous)	B	B	A	A	A	A	A	B	A
Cane Sugar Liqours	A	A	A	A	A	A	A	A	A
Carbamate	D	D	B	B	C	B	B	*	A
Carbitol	B	B	B	B	B	B	B	B	B
Carbolic Acid (Phenol)	D	D	B	B	D	C	D	D	A
Carbon Bisulfide	D	D	D	D	C	D	D	D	A
Carbon Dioxide	B	B	B	B	A	B	B	B	A
Carbonic Acid	A	B	A	A	B	A	A	A	A
Carbon Monoxide	B	B	A	A	A	B	B	A	A



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Carbon Tetrachloride	D	D	D	D	C	D	D	D	A
Castor Oil	A	A	B	B	A	A	B	A	A
Cellosolve	D	D	B	B	D	D	D	D	C
Cellosolve Acetate	D	D	B	B	D	D	D	D	D
Cellolube (Fryquel)	D	D	A	A	D	D	D	A	A
China Wood Oil (Tung Oil)	D	D	C	C	A	B	C	D	A
Chlorine (Dry)	D	D	D	D	D	C	B	D	A
Chlorine (Wet)	D	D	C	C	D	C	C	D	B
Chlorine Dioxide	D	D	C	C	D	D	C	*	A
Chlorine Trifluoride	D	D	D	D	D	D	D	D	D
Chloroacetic Acid	D	D	B	A	D	D	A	*	D
Chloroacetone	D	D	B	A	D	C	C	D	D
Cholorobenzene	D	D	D	D	D	D	D	D	A
Chlorobromomethane	D	D	B	B	D	D	D	D	A
Chlorobutadiene	D	D	D	D	D	D	D	D	A
Chlorododecane	D	D	D	D	D	D	D	D	A
Chloroform	D	D	D	D	D	D	D	D	A
O-Chloronapthalene	D	D	D	D	D	D	D	D	A
1-Chloro-1-Nitro Ethane	D	D	D	D	D	D	D	D	D
Chlorosulfonic Acid	D	D	D	D	D	D	D	D	D
Chlorotuene	D	D	D	D	D	D	D	D	A
Chlorox (Sodium Hypochlorite NAOCl)	D	D	B	B	B	A	B	B	A
Chrome Plating Solutions	D	D	B	B	D	D	D	B	A
Chromic Acid	D	D	C	C	D	C	B	C	A
Citric Acid	A	A	A	A	A	A	A	A	A
Coal Tar (Creosote)	D	D	D	D	A	B	D	D	A
Cobalt Chloride (Aqueous)	A	A	A	A	A	A	A	B	A
Cocoaunt Oil	D	D	C	C	A	B	C	A	A
Cod Liver Oil	D	D	A	A	A	B	B	B	A



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Cook Oven Gas	D	D	D	D	D	D	C	B	A
Copper Acetate (Aqueous)	A	A	A	A	B	B	B	D	D
Copper Chloride (Aqueous)	A	A	A	A	A	B	B	A	A
Copper Cyanide (Aqueous)	A	B	A	A	A	A	A	A	A
Copper Sulfate (Aqueous)	B	D	B	A	A	A	A	A	A
Corn Oil	D	D	C	C	A	C	B	A	A
Cottonseed Oil	D	D	C	B	A	B	B	A	A
Creosote (Coal Tar)	D	D	D	D	A	B	D	D	A
Cresol	D	D	D	D	D	C	D	D	A
Cresylicacid	D	D	D	D	D	C	D	D	A
Cumene	D	D	D	D	D	D	D	D	A
Cyclohexane	D	D	D	D	A	C	D	D	A
Cyclohexanol	D	D	D	C	C	A	B	D	A
Cyclohexanone	D	D	B	B	D	D	D	D	D
P-Cymene	D	D	D	D	D	D	D	D	A
Decalin	D	D	D	D	D	D	D	D	A
Decane	D	D	D	D	A	D	C	B	A
Denatured Alcohol	A	A	A	A	A	A	A	A	A
Detergent Solutions	B	B	A	A	A	B	B	A	A
Developing Fluids	A	B	B	B	A	A	A	A	A
Diacetone	D	D	A	A	D	D	D	D	D
Diacetone Alcohol	D	D	A	A	D	B	B	B	D
Dibenzyl Ether	D	D	B	B	D	C	D	*	D
Dibenzyl Sebecate	D	D	B	B	D	D	D	C	B
Dibromoethylbenzene	D	D	D	D	D	D	D	D	B
Dibutyl Amine	D	D	D	C	D	D	D	C	D
Dibutyl Ether	D	D	C	C	D	C	D	D	C
Dibutyl Phthalate	D	D	C	B	D	D	D	B	C
Dibutyl Sebecate	D	D	B	B	D	D	D	B	B
O-Dchlorobenzene	D	D	D	D	D	D	D	C	A



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Dichloro-Isopropyl Ether	D	D	D	C	D	D	D	D	A
Dicyclohexylamine	D	D	D	D	C	D	D	D	C
Diesel Oil	D	D	D	D	A	C	C		D
Diethylamine	B	B	B	B	B	B	C	D	A
Diethyl Benzene	D	D	D	D	D	D	D	B	D
Diethyl Ether	D	D	D	D	D	C	C	D	A
Diethylene Glycol	A	A	A	A	A	A	A	D	D
Diethyl Sebecate	D	D	B	B	B	D	B	B	A
Diisobutylene	D	D	D	D	B	D	D	B	B
Diisopropiyl Benzene	D	D	D	D	D	D	D	D	A
Diisopropiyl Ketone	D	D	A	A	D	D	D	*	A
Diisopropiylidene Acetone (Phorone)	D	D	C	C	D	D	D	D	D
Dimethyl Aniline (Xylidine)	C	C	C	B	C	C	D	D	D
Dimethyl Ether (Methyl Ether)	D	D	D	D	A	C	C	A	D
Dimethyl Formamide	D	D	B	B	B	C	D	B	D
Dimethyl Phthalate	D	D	B	B	D	D	D	*	B
Dinitrotoluene	D	D	D	D	D	D	D	D	D
Diocyl Phthalate	D	D	B	B	C	D	D	C	B
Diocyl Sebecate	D	D	B	B	D	D	D	C	B
Dioxane	D	D	B	B	D	D	D	D	D
Dioxolane	D	D	C	B	D	D	D	D	D
Dipentene	D	D	D	D	B	D	D	D	A
Diphenyl (Biphenyl) (Phenylbenzene)	D	D	D	D	D	D	D	D	A
Diphenyl Oxides	D	D	D	D	D	D	D	C	A
Dowtherm Oil	D	D	D	D	D	D	D	C	A
Dry Cleaning Fluids	D	D	D	D	C	D	D	D	A
Epichlorohydrin	D	D	B	B	D	D	D	D	D
Ethane	D	D	D	D	A	B	B	D	A
Ethanolamine	B	B	B	B	B	B	C	B	D
Etahyl Acetate	D	D	B	B	D	C	D	B	D



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Ethyl Acetoacetate	C	C	B	B	D	C	D	B	D
Ethyl Acrylate	D	D	B	B	D	D	D	B	D
Ethyl Alcohol	A	A	A	A	A	A	A	A	B
Ethyl Benzene	D	D	D	D	D	D	D	D	A
Ethyl Benzoate	A	A	A	A	D	D	D	D	A
Ethyl Cellosolve	D	D	D	D	D	D	D	D	D
Ethyl Cellulose	B	B	B	B	B	B	B	C	D
Ethyl Chloride	D	D	D	C	A	D	D	D	A
Ethyl Chlorocarbonate	D	D	C	B	D	D	D	D	A
Ethyl Chloroformate	D	D	C	B	D	D	D	D	D
Ethyl Ether	D	D	C	C	C	C	D	D	D
Ethyl Formate	D	D	B	B	D	B	B	*	A
Ethyl Mercaptan	D	D	D	C	D	C	B	C	B
Ethyl Oxalate	A	A	A	A	D	C	D	D	A
Ethyl Pentachlorobenzene	D	D	D	D	D	D	D	D	A
Ethyl Silicate	B	B	A	A	A	A	B	*	A
Ethylene	C	C	B	B	A	C	*	*	A
Ethylene Chloride	D	D	C	C	D	D	D	D	B
Ethylene Chlorohydrin	B	B	B	B	D	B	B	C	A
Ethylene Diamine	A	B	A	A	A	A	B	A	D
Ethylene Dichloride	D	D	C	C	D	D	D	D	A
Ethylene Glycol	A	A	A	A	A	A	A	A	A
Ethylene Oxide	D	D	C	C	D	D	D	D	D
Ethylene Trichloride	D	D	C	C	D	D	D	D	A
Fatty Acids	D	D	C	C	B	B	B	C	A
Ferric Chloride (Aqueous)	A	A	A	A	A	A	A	B	A
Ferric Nitrate (Aqueous)	A	A	A	A	A	A	A	C	A
Ferric Sulfate (Aqueous)	A	A	A	A	A	A	A	B	A
Fish Oil	D	D	D	D	A	D	*	A	A
Fluorinated Cyclic Ethers	D	D	A	A	*	D	*	*	*



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Fluorine (Liquid)	D	D	D	D	D	D	*	D	B
Fluorobenzene	D	D	D	D	D	D	*	D	A
Fluoroboric Acid	A	A	A	A	A	A	A	*	*
Fluorocarbon Oils	B	B	A	A		B	*	*	*
Fluorolube	B	C	A	A	A	B	A	A	B
Fluorosilicic Acid (Hydrofluosilicic Acid)	B	C	B	B	A	B	A	D	A
Formaldehyde (RT)	B	B	A	A	C	B	A	B	D
Formic Acid	B	A	A	A	B	A	A	B	C
Freon 11	D	D	D	D	B	C	A	D	A
Freon 12	B	A	B	B	A	A	A	D	B
Freon 13	A	A	A	A	A	A	A	D	A
Freon 21	D	D	D	D	D	D	D	D	D
Freon 22	B	A	A	A	D	A	A	D	D
Freon 31	B	B	A	A	D	B	B	*	D
Freon 32	A	A	A	A	A	A	A	*	D
Freon 112	D	C	D	D	B	C	B	D	A
Freon 113	C	B	D	C	A	A	A	D	B
Freon 114	A	A	A	A	A	A	A	D	B
Freon 115	A	A	A	A	A	A	A	*	B
Freon 142b	B	B	A	B	A	A	A	*	D
Freon 152b	A	A	A	A	A	A	C	*	D
Freon 218	A	A	A	A	A	A	A	*	A
Freon C316	A	A	A	A	A	A	A	*	B
Freon C318	A	A	A	A	A	A	A	*	B
Freon 1381	A	A	A	A	A	A	A	D	A
Freon 114B2	D	C	D	D	B	C	A	D	B
Freon502	A	A	A	A	B	A	*	*	B
Freon TF	D	C	D	D	A	A	A	D	B
FreonT-WD602	D	C	B	B	B	B	B	D	A
Freon TMC	D	D	C	C	B	C	B	C	A



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Freon T-P35	A	A	A	A	A	A	A	A	A
Freon TA	C	C	B	B	A	B	A	C	D
Freon TC	D	C	B	B	A	A	A	D	A
Freon MF	D	D	D	D	A	C	B	D	B
Freon BF	D	D	D	D	B	C	B	D	A
Fuel Oil	D	D	D	D	A	B	B	D	A
Fumaric Acid	C	C	D	D	A	B	B	B	A
Furan, Furfuran	D	D	D	C	D	D	D	*	D
Furfural	D	D	B	B	D	C	C	D	D
Fyquel (Cellulube)	D	D	A	A	D	D	D	A	A
Gallic Acid	A	B	B	B	B	B	B	*	A
Gasoline	D	D	D	D	B	C	C	D	A
Gelatin	A	A	A	A	A	A	A	A	A
Glauber's Salt (Aqueous)	B	D	B	B	D	B	B	*	A
Glucose	A	A	A	A	A	A	A	A	A
Glue	B	B	B	A	A	A	A	A	A
Glycerin	A	A	A	A	A	A	A	A	A
Glycols	A	A	A	A	A	A	A	A	A
Green Sulfate Liquor	B	B	A	A	B	B	B	A	A
Halowax Oil	D	D	D	D	D	D	D	D	A
N-Hexaldehyde	D	D	B	A	D	A	C	B	D
Hexane	D	D	D	D	A	B	B	D	A
N-Hexane-1	D	D	D	D	B	B	B	D	A
Hexyl Alcohol	B	B	C	C	A	B	B	B	A
Hydrazine	A	A	A	A	B	B	B	C	D
Hydraulic Oil (Petroleum)	D	D	D	D	A	B	B	C	A
Hydrobromic Acid	A	D	A	A	D	D	A	D	A
Hydrobromic Acid 40%	A	D	A	A	D	B	A	D	A
Hydrobromic Acid (Cold) 37%	B	B	A	A	C	B	A	C	A
Hydrobromic Acid (Hot) 37%	D	D	C	C	D	D	D	D	B



A - Consigliato B - Effetto da Lieve a Moderato C - Effetto da Moderato a Grave D - Non Consigliato *Dati Insufficienti									
Sostanze Chimiche	Gomma Naturale, Isoprene (NR, IR)	Stirene, Butadiene (SBR)	Butl (IIR)	EPDM, EPM	Nitrile (NBR)	Neoprene (CR)	Hypalon (CSM)	Silicone (SI, VMQ)	Fluoroelastomero (FKM)
Hydrocyanic Acid	B	B	A	A	B	B	A	C	A
Hydrofluoric Acid (Conc.) Cold	D	D	C	C	D	D	A	D	A
Hydrofluoric Acid (Conc.) Hot	D	D	D	D	D	D	C	D	D
Hydrofluoric Acid-Anhydrous	D	D	C	C	D	D	A	D	D
Hydrofluoric Acid (Fluosilicic Acid)	B	C	B	B	A	B	A	D	A
Hydrogen Gas	B	A	A	A	A	A	A	C	A
Hydrogen Peroxide (90%)	D	D	C	B	D	D	A	B	B
Hydrogen Sulfide (Wet) Cold	D	D	A	A	D	A	B	C	D
Hydrogen Sulfide (Wet) Hot	D	D	A	A	D	C	C	C	D
Hydroquinone	B	D	B	B	C	D	D	*	B
Hypochlorous Acid	B	D	B	B	D	D	D	*	A
Iodine Pentafluoride	D	D	D	D	D	D	D	D	D
Iodoform	D	D	D	D	*	D	*	*	C
Isobutyl Alcohol	A	B	A	A	B	A	A	A	A
Isooctane	D	D	D	D	A	B	B	D	A
Isophorone	D	D	C	C	D	D	D	D	D
Isopropyl Acetate	D	D	B	B	D	D	D	D	D
Isopropyl Alcohol	A	B	A	A	B	B	A	A	A
Isopropyl Chloride	D	D	D	D	D	D	D	D	A
Isopropyl Ether	D	D	D	D	B	C	C	D	D
Kerosene	D	D	D	D	A	B	C	D	A
Lacquers	D	D	D	D	D	D	D	D	D
Lacquer Solvents	D	D	D	D	D	D	D	D	D
Lactic Acid (Cold)	A	A	A	A	A	A	A	A	A
Lactic Acid (Hot)	D	D	D	D	D	D	C	B	A
Lard	D	D	B	B	A	B	D	B	A
Lavendar Oil	D	D	D	D	B	D	D	D	A
Lead Acetate (Aqueous)	A	D	A	A	B	B	D	D	D
Lead Nitrate (Aqueous)	A	A	A	A	A	A	A	B	A
Lead Sulfamate (Aqueous)	B	B	A	A	B	A	A	B	A



A - Consigliato B - Effetto da Lieve a Moderato C - Effetto da Moderato a Grave D - Non Consigliato *Dati Insufficienti

Sostanze Chimiche	Gomma Naturale, Isoprene (NR, IR)	Stirene, Butadiene (SBR)	Butl (IIR)	EPDM, EPM	Nitrile (NBR)	Neoprene (CR)	Hypalon (CSM)	Silicone (SI, VMQ)	Fluoroelastomero (FKM)
Ligroin (Benzene) (Nitrobenzene)	D	D	D	D	A	B	C	B	A
Lime Bleach	A	B	A	A	A	B	B	B	A
Lime Sulfur	D	D	A	A	D	A	A	A	A
Lindol (Hydraulic Fluid)	D	D	A	A	D	D	D	C	B
Linoleic Acid	D	D	D	D	B	D	D	B	B
Linseed Oil	D	D	C	C	A	B	B	A	A
Liquefied Petroleum Gas	D	D	D	D	A	B	B	C	A
Lubricating Oils (Petroleum)	D	D	D	D	A	B	B	D	A
Lye	B	B	A	A	B	B	A	B	B
Magnesium Chloride (Aqueous)	A	A	A	A	A	A	A	A	A
Magnesium Hydroxide (Aqueous)	B	B	A	A	B	A	A	*	A
Magnesium Sulfate (Aqueous)	B	B	A	A	A	A	A	A	A
Maleic Acid	C	C	B	B	D	C	D	*	A
Malic Acid	C	C	B	B	D	C	D	*	D
Mercury Chloride (Aqueous)	A	A	A	A	A	A	A	*	A
Mercury	A	A	A	A	A	A	A	*	A
Mesityl Oxide	D	D	B	B	D	D	D	D	D
Methane	D	D	D	D	A	B	B	D	A
Methyl Acetate	C	C	A	A	D	B	D	D	D
Methyl Acrylate	D	D	B	B	D	B	D	D	D
Methylacrylic Acid	D	D	B	B	D	B	D	D	D
Methyl Alcohol	A	A	A	A	A	A	A	A	D
Methyl Bromide	D	D	D	D	B	D	D	*	A
Methyl Butyl Ketone (Propyl Acetone)	D	D	A	A	D	D	D	C	D
Methyl Cellosolve	D	D	B	B	C	C	B	D	D
Methyl Chloride	D	D	C	C	D	D	D	D	B
Methyl Cyclopentane	D	D	D	D	D	D	D	D	A
Methylene Chloride	D	D	D	C	D	D	D	D	B
Methyl Ether (Dimethyl Ether)	D	D	D	D	A	C	C	A	D
Methyl Ethyl Ketone	D	D	B	A	D	C	D	D	D



A - Consigliato B - Effetto da Lieve a Moderato C - Effetto da Moderato a Grave D - Non Consigliato *Dati Insufficienti									
Sostanze Chimiche	Gomma Naturale, Isoprene (NR, IR)	Stirene, Butadiene (SBR)	Butl (IIR)	EPDM, EPM	Nitrile (NBR)	Neoprene (CR)	Hypalon (CSM)	Silicone (SI, VMQ)	Fluoroelastomero (FKM)
Methyl Formate	D	D	B	B	D	B	B	*	D
Methyl Isobutyl Ketone	D	D	C	B	D	D	D	D	D
Methyl Methacrylate	D	D	D	C	D	D	D	D	D
Methyl Oleate	D	D	B	B	D	D	D	*	B
Methyl Salicylate	C	C	B	B	D	D	D	*	B
Milk	A	A	A	A	A	A	A	A	A
Mineral Oil	D	D	C	C	A	B	B	B	A
Monochlorobenzene	D	D	D	D	D	D	D	D	A
Monomethyl Aniline	D	D	B	B	D	D	D	*	B
Monoethanol Amine	B	B	B	A	D	D	D	B	D
Monomethyl Ether (Methyl Ether)	D	D	D	D	A	C	B	A	D
Monovinyl Acetylene	B	B	B	B	A	B	B	B	A
Mustard Gas	A	B	A	A	*	A	A	A	A
Naphtha	D	D	D	D	B	C	D	D	A
Naphthalene	D	D	D	D	D	D	D	D	A
Naphthalenic Acid	D	D	D	D	B	D	D	D	A
Natural Gas	B	B	D	D	A	A	A	A	A
Neats Foot Oil	D	D	B	B	A	D	D	B	A
Neville Acid	D	D	B	B	D	D	D	D	A
Nickel Acetate (Aqueous)	A	D	A	A	B	B	D	D	D
Nickel Chloride (Aqueous)	A	A	A	A	A	A	A	A	A
Nickel Sulfate (Aqueous)	B	B	A	A	A	A	A	A	A
Niter Cake	A	A	A	A	A	A	A	A	A
Nitric Acit (Conc.)	D	D	D	D	D	D	B	D	B
Nitric Acid (Dilute)	D	D	B	B	D	B	A	B	A
Nitric Acid-Red Fuming	D	D	D	D	D	D	D	D	C
Nitrobenzene	D	D	A	A	D	D	D	D	B
Nitrobenzene (Petroleum Ether)	D	D	D	D	A	B	C	D	A
Nitroethane	B	B	B	B	D	C	B	D	D
Nitrogen	A	A	A	A	A	A	A	A	A



A - Consigliato B - Effetto da Lieve a Moderato C - Effetto da Moderato a Grave D - Non Consigliato *Dati Insufficienti									
Sostanze Chimiche	Gomma Naturale, Isoprene (NR, IR)	Stirene, Butadiene (SBR)	Butl (IIR)	EPDM, EPM	Nitrile (NBR)	Neoprene (CR)	Hypalon (CSM)	Silicone (SI,VMQ)	Fluoroelastomero (FKM)
Nitrogen Tetroxide	D	D	C	C	D	D	D	D	D
Nitromethane	B	B	B	B	D	B	C	D	D
Octachlorotoluene	D	D	D	D	D	D	D	D	A
Octadecane	D	D	D	D	A	B	B	D	A
N-Octane	D	D	D	D	B	B	B	D	A
Octyl Alcohol	B	B	C	C	B	A	B	B	A
Oleic Acid	D	D	D	D	C	C	C	D	B
Oleum Spirits	D	D	D	D	B	C	B	D	A
Olive Oil	D	D	B	B	A	B	B	C	A
O-Dichlorobenzene	D	D	D	D	D	D	D	D	A
Oxalic Acid	B	B	A	A	B	B	B	B	A
Oxygen-Cold	B	B	A	A	B	A	A	A	A
Oxygen-(200-400oF)	D	D	D	C	D	D	D	B	B
Ozone	D	D	B	A	D	C	A	D	A
Paint Thinner, Duco	D	D	D	D	D	D	D	D	B
Palmitic Acid	B	B	B	B	A	B	C	D	A
Penut Oil	D	D	C	C	A	C	B	A	A
Perchloric Acid	D	D	B	B	D	B	B	D	A
Perchloroethylene	D	D	D	D	B	D	D	D	A
Petroleum-Below 250oF	D	D	D	D	A	B	B	B	A
Petroleum-Above 250oF	D	D	D	D	D	B	D	D	B
Phenol (Carbolic Acid)	D	*	B	B	D	C	D	D	A
Phenylbenzene (Biphenyl) (Diphenyl)	D	D	D	D	D	D	D	D	A
Phenyl Ethyl Ether	D	D	D	D	D	D	D	D	D
Phenyl Hydrazine	A	B	B	B	D	D	D	*	B
Phorone (Diisopropylidene Acetone)	D	D	C	C	D	D	D	D	D
Phosphoric Acid-20%	B	B	B	A	B	B	A	B	A
Phosphoric Acid-45%	C	C	B	A	D	B	B	C	A
Phosphorus Trichloride	D	D	A	A	D	D	D	*	A
Pickling Solution	D	D	C	C	D	D	B	D	A



A - Consigliato B - Effetto da Lieve a Moderato C - Effetto da Moderato a Grave D - Non Consigliato *Dati Insufficienti									
Sostanze Chimiche	Gomma Naturale, Isoprene (NR, IR)	Stirene, Butadiene (SBR)	Butl (IIR)	EPDM, EPM	Nitrile (NBR)	Neoprene (CR)	Hypalon (CSM)	Silicone (SI,VMQ)	Fluoroelastomero (FKM)
Picric Acid	B	B	B	B	B	A	B	D	A
Pinene	D	D	D	D	B	C	C	D	A
Pine Oil	D	D	D	D	D	D	D	D	A
Piperidine	D	D	D	D	D	D	D	D	D
Plating Solution- Chrome	D	D	A	A	*	D	D	D	A
Plating Solution- Others	D	D	A	A	A	D	A	D	A
Polyvinyl Acetate Emulsion	B	D	A	A	*	B	B	*	*
Potassium Acetate (Aqueous)	A	D	A	A	B	B	A	D	D
Potassium Chloride (Aqueous)	A	A	A	A	A	A	A	A	A
Potassium Cupro Cyanide	A	A	A	A	A	A	A	A	A
Potassium Cyanide (Aqueous)	A	A	A	A	A	A	A	A	A
Potassium Dichromate (Aqueous)	B	B	A	A	A	A	A	A	A
Potassium Hydroxide (Aqueous)	B	B	A	A	A	A	A	A	A
Potassium Nitrate (Aqueous)	A	A	A	A	A	A	A	A	A
Potassium Sulfate (Aqueous)	B	A	A	A	A	A	A	A	A
Producer Gas	D	D	D	D	A	B	B	B	A
Propane	D	D	D	D	A	B	B	D	A
i-Propyl Acetate	D	D	B	B	D	D	D	D	D
n-Propyl Acetate	D	D	B	B	D	D	D	D	D
Propyl Acetone (Methyl Butyl Ketone)	D	D	A	A	D	D	D	C	D
Propyl Alcohol	A	A	A	A	A	A	A	A	A
Propyl Nitrate	D	D	B	B	D	D	D	D	D
Propylene	D	D	D	D	D	D	D	D	A
Propylene Oxide	D	D	B	B	D	D	D	D	D
Pydraul, 10E, 29 ELT	D	D	A	A	D	D	D	D	A
Pydraul, 30E, 50E, 65E, 90E	D	D	A	A	D	D	D	A	A
Pydraul, 115E	D	D	A	A	D	D	D	D	A
Pydraul, 230E, 312C, 540C	D	D	D	D	D	D	D	D	A
Pydraul, Transformer Oil	D	D	D	D	A	B	C	D	A



A - Consigliato B - Effetto da Lieve a Moderato C - Effetto da Moderato a Grave D - Non Consigliato *Dati Insufficienti									
Sostanze Chimiche	Gomma Naturale, Isoprene (NR, IR)	Stirene, Butadiene (SBR)	Butl (IIR)	EPDM, EPM	Nitrile (NBR)	Neoprene (CR)	Hypalon (CSM)	Silicone (SI,VMQ)	Fluoroelastomero (FKM)
Pyridine	D	D	B	B	D	D	D	D	D
Pyroligneous Acid	D	D	B	B	D	B	B	*	D
Pyrrrole	C	C	D	C	D	D	D	B	D
Radiation	C	C	D	B	C	B	C	C	C
Rapeseed Oil	D	D	A	A	B	B	B	D	A
Red Oil (MIL-H-5606)	D	D	D	D	A	B	B	D	A
RJ-1 (MIL-F-25558 B)	D	D	D	D	A	B	B	D	A
RP-1 (MIL-F-25576 C)	D	D	D	D	A	B	B	D	A
Sal Ammoniac	A	A	A	A	A	A	A	B	A
Salicylic Acid	A	B	A	A	B	A	*	*	A
Salt Water	A	A	A	A	A	B	A	A	A
Sewage	B	B	B	B	A	B	A	B	A
Silicate Esters	D	D	D	D	B	A	A	D	A
Silicone Greases	A	A	A	A	A	A	A	C	A
Silicone Oils	A	A	A	A	A	A	A	C	A
Silver Nitrate	A	A	A	A	B	A	A	A	A
Skydrol 500	D	D	B	A	D	D	D	C	D
Skydrol 7000	D	D	A	A	D	D	D	C	B
Soap Solutions	B	A	A	A	A	B	A	A	A
Soda Ash	A	A	A	A	A	A	A	A	A
Sodium Acetate (Aqueous)	A	D	A	A	B	B	A	D	D
Sodium Bicarbonate (Aqueous) (Baking Soda)	A	A	A	A	A	A	A	A	A
Sodium Bisulfite (Aqueous)	A	B	A	A	A	A	A	A	A
Sodium Borate (Aqueous)	A	A	A	A	A	A	A	A	A
Sodium Chloride (Aqueous)	A	A	A	A	A	A	A	A	A
Sodium Cyanide (Aqueous)	A	A	A	A	A	A	A	A	B
Sodium Hydroxide (Aqueous)	A	A	A	A	B	A	A	B	A
Sodium Hypochlorite (Aqueous) (Chlorox)	D	D	B	B	B	A	A	B	A
Sodium Metaphosphate (Aqueous)	A	A	A	A	A	B	B	*	A



A - Consigliato B - Effetto da Lieve a Moderato C - Effetto da Moderato a Grave D - Non Consigliato *Dati Insufficienti									
Sostanze Chimiche	Gomma Naturale, Isoprene (NR, IR)	Stirene, Butadiene (SBR)	Butl (IIR)	EPDM, EPM	Nitrile (NBR)	Neoprene (CR)	Hypalon (CSM)	Silicone (SI,VMQ)	Fluoroelastomero (FKM)
Sodium Nitrate (Acqueous)	B	A	A	A	B	B	A	D	A
Sodium Perborate (Acqueous)	B	B	A	A	B	B	B	B	A
Sodium Peroxide (Acqueous)	B	B	A	A	B	B	B	D	B
Sodium Phosphate (Acqueous)	A	A	A	A	A	B	A	D	A
Sodium Silicate (Acqueous)	A	A	A	A	A	A	A	*	A
Sodium Sulfate (Acqueous)	B	B	A	A	A	A	A	A	A
Sodium Thiosulfate (Acqueous)	B	B	A	A	B	A	A	A	A
Soybean Oil	D	D	C	C	A	B	C	A	A
Stannic Chloride (Acqueous)	A	A	A	A	A	B	A	B	A
Stannous Chloride (Acqueous)	A	A	A	A	A	A	A	B	A
Steam Under 300oF	D	D	B	A	D	C	D	C	D
Steam Over 300oF	D	D	D	C	D	D	D	D	D
Stearic Acid	B	B	B	B	B	B	B	B	A
Stoddard Solvent	D	D	D	D	A	B	D	D	A
Styrene	D	D	D	D	D	D	D	D	B
Sucrose Solution	A	A	A	A	A	B	B	A	A
Sulfite Liquors	B	B	B	B	B	B	B	D	A
Sulfur	D	D	A	A	D	A	A	C	A
Sulfur Chloride (Acqueous)	D	D	D	D	C	C	B	C	A
Sulfur Dioxide (Dry)	B	B	B	A	D	D	B	B	B
Sulfur Dioxide (Wet)	D	D	A	A	D	B	A	B	B
Sulfur Dioxide (Liquified Under Pressure)	D	D	B	A	D	D	D	B	B
Sulfur Hexafluoride	D	D	A	A	B	A	B	B	A
Sulfur Trioxide	B	B	B	B	D	D	D	B	A
Sulfuric Acid (Dilute)	C	C	B	B	C	B	A	D	A
Sulfuric Acid (conc.)	D	D	D	C	D	D	A	D	A
Sulfuric Acid (20% Oleum)	D	D	D	D	D	D	D	D	A
Sulfurous Acid	B	B	B	B	B	B	A	D	C
Tannic Acid	A	B	A	A	A	A	A	B	A

A - Consigliato B - Effetto da Lieve a Moderato C - Effetto da Moderato a Grave D - Non Consigliato *Dati Insufficienti									
Sostanze Chimiche	Gomma Naturale, Isoprene (NR, IR)	Stirene, Butadiene (SBR)	Butl (IIR)	EPDM, EPM	Nitrile (NBR)	Neoprene (CR)	Hypalon (CSM)	Silicone (SI,VMQ)	Fluoroelastomero (FKM)
Tar, Bituminous	D	D	C	C	B	C	D	B	A
Tartaric Acid	C	D	B	B	A	B	A	A	A
Terpineol	D	D	C	C	B	D	D	*	A
Tertiary Butyl Alcohol	B	B	B	B	B	B	B	B	A
Tertiary Butyl Catechol	D	B	B	B	D	B	B	*	A
Tertiary Butyl Mercaptan	D	D	D	D	D	D	D	D	A
Tetrabromoethane	D	D	D	D	D	D	D	D	A
Tetrabromomethane	D	D	D	D	D	D	*	D	A
Tetrabutyl Titane	B	B	B	A	B	B	A	*	A
Tetrachloroethylene	D	D	D	D	D	D	D	D	A
Tetrahydrofuran	D	D	C	C	D	D	D	D	D
Tetralin	D	D	D	D	D	D	D	D	B
Thionyl Chloride	D	D	D	C	D	D	D	*	B
Titanium Tetrachloride	D	D	D	D	B	D	D	D	A
Toluene	D	D	D	D	D	D	D	D	B
Toluene Diisocyanate	D	D	B	B	D	D	D	D	D
Transformer Oil	D	D	D	D	A	B	C	B	A
Transmission Fluid Type A	D	D	D	D	A	B	B	B	A
Triacetin	B	B	A	A	B	B	B	*	D
Triaryl Phosphate	D	D	A	A	D	D	D	C	A
Trinutoxy Ethyl Phosphate	B	B	A	A	D	D	D	*	A
Tributyl Mercaptan	D	D	D	D	D	D	D	D	A
Tributyl Phosphate	B	D	B	B	D	D	D	D	D
Trichloroacetic Acid	C	B	B	B	B	D	D	*	D
Trichloroethane	D	D	D	D	D	D	D	D	A
Trichloroethylene	D	D	D	D	D	D	D	D	A
Tricresyl Phosphate	D	A	A	D	D	C	D	C	A
Trethanol Amine	B	B	B	A	B	A	B	*	D
Triethyl Aluminium	D	D	C	C	D	D	D	*	B



A - Consigliato B - Effetto da Lieve a Moderato C - Effetto da Moderato a Grave D - Non Consigliato *Dati Insufficienti

Sostanze Chimiche	Gomma Naturale, Isoprene (NR, IR)	Stirene, Butadiene (SBR)	ButI (IIR)	EPDM, EPM	Nitrile (NBR)	Neoprene (CR)	Hypalon (CSM)	Silicone (SI, VMQ)	Fluoroelastomero (FKM)
Tributyl Mercaptam	D	D	D	D	D	D	D	D	A
Tributyl Phosphate	B	D	B	B	D	D	D	D	D
Trichloroacetic Acid	C	B	B	B	B	D	D	*	D
Trichloroethane	D	D	D	D	D	D	D	D	A
Trichloroethyle	D	D	D	D	D	D	D	D	A
Tricresyl Phosphate	D	A	A	D	D	C	D	C	A
Trethanol Amine	B	B	B	A	B	A	B	*	D
Triethyl Aluminium	D	D	C	C	D	D	D	*	B
Triethyl Borane	D	D	C	C	D	D	D	*	A
Trinitrotoluene	D	D	D	D	D	B	B	*	B
Trioctyl Phosphate	D	D	A	A	D	D	D	C	B
Tung Oil (China Wood Oil)	D	D	C	C	A	B	C	D	A
Turbine Oil	D	D	D	D	B	D	D	D	A
Turpentine	D	D	D	D	A	D	D	D	A
Usymmetrical Dimethyl Hydrazine	A	A	A	A	B	A	A	D	D
Varnish	D	D	D	D	B	D	D	D	A
Vegetable Oils	D	D	C	C	A	C	B	B	A
Versilube F-50	A	A	A	A	A	A	A	C	A
Vinegar	B	B	A	A	B	B	A	A	A
Vinyl Chloride	D	D	D	D	D	D	D	*	A
Wagner 21B Brake Fluid	B	A	B	A	C	B	B	C	D
Water	A	A	A	A	A	A	A	A	A
Whiskey, Wines	A	A	A	A	A	A	A	A	A
White Pine Oil	D	D	D	D	B	D	D	D	A
White Oil	D	D	D	D	A	B	D	D	A
Wood Oil	D	D	D	D	A	B	C	D	A
Xylene	D	D	D	D	D	D	D	D	A
Xylidine (Di-methyl Aniline)	C	C	C	B	C	C	D	D	D
Zeolites	A	A	A	A	A	A	A	*	A
Zinc Acetate (Aqueous)	A	D	A	A	B	B	A	D	D
Zinc Chloride (Aqueous)	A	A	A	A	A	A	A	A	A
Zinc Sulfate (Aqueous)	B	B	A	A	A	A	A	A	A