

The following chemical resistance ratings are based on published research data.
has not individually tested against the chemicals contained in this chart.

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CHEMICAL RATINGS KEY

■ Excellent
 ■ Good
 ■ Fair
 ■ Not Recommended
 ■ No Data

Chemicals	Latex	Nitrile
Acetaldehyde	Fair	Not Recommended
Acetamide	Not Recommended	Excellent
Acetic acid (50% concentration)	Good	Good
Acetone	Not Recommended	Not Recommended
Acetonitrile	Good	Not Recommended
Acetophenone	Not Recommended	Not Recommended
Acetyl chloride	Not Recommended	Not Recommended
Acrylamide	No Data	No Data
Acrylic acid	Good	Fair
Aircraft stripper	Not Recommended	Good
Aluminum nitrate (nonhydrous) (10% concentration)	Good	Good
Ammonia	Not Recommended	Good
Ammonium benzoate	Not Recommended	Not Recommended
Ammonium hydroxide (30% concentration)	Good	Excellent
Ammonium hydroxide (concentrated)	Not Recommended	Not Recommended
Ammonium oxalate	No Data	Excellent
Ammonium sulfate (aqueous)	Excellent	Excellent
Amyl acetate	Not Recommended	Not Recommended
Aniline	Not Recommended	Not Recommended
Antifreeze	Excellent	Excellent
Benzaldehyde	Not Recommended	Not Recommended
Benzene	Not Recommended	Not Recommended
Benzoic acid	Not Recommended	Not Recommended
Boric acid	Excellent	Excellent
Brake cleaner	Not Recommended	Excellent
Brake cleaner, non-chlorinated	Not Recommended	Not Recommended
Brake fluid	Good	Good
Bromine (anhydrous liquid)	Not Recommended	Not Recommended
Bromoethane (methyl bromide)	Not Recommended	Not Recommended
Butyl acetate	Not Recommended	Not Recommended
n-Butyl alcohol	Good	Excellent
n-Butyl chloride	Not Recommended	Not Recommended
1, 3-Butylene glycol (1,3-butanediol)	No Data	Good
Calcium chloride (aqueous)	Excellent	Excellent
Calcium hydroxide	Excellent	Excellent
Carbamide peroxide	Good	Fair
Carbon dioxide	Good	Excellent
Carbon disulfide	Not Recommended	Not Recommended
Carbon tetrachloride	Not Recommended	Good
Carburetor cleaner (typically xylene, toluene and/or acetone)	Not Recommended	Not Recommended
Castor Oil	Excellent	Excellent
Chlorine (wet)	Not Recommended	Not Recommended
Chlorobenzene	Not Recommended	Not Recommended
Chloroform	Not Recommended	Not Recommended
o-Chloronaphthalene	Not Recommended	Not Recommended
Chromic acid (50% concentration)	Not Recommended	Fair
Citric acid	Excellent	Excellent
Clonidine hydrochloride (0.1% concentration)	No Data	No Data
Cresols	Not Recommended	Not Recommended
Cupric sulfate (copper sulfate)	Good	Excellent
Cyanic compounds	No Data	Fair
Cyclohexane	Not Recommended	Excellent
Cyclohexanol	Fair	Good
Cyclohexanone	Not Recommended	Not Recommended

Chemicals	Latex	Nitrile
Decahydronaphthalene	Not Recommended	Not Recommended
Denatured alcohol	Excellent	Excellent
Dental etching material	Good	Good
Dental resin cement	Fair	No Data
Dental waxes	Not Recommended	Excellent
Denture polishing material	Not Recommended	Good
Detergent solutions	Good	Excellent
Developing fluids	Excellent	Excellent
Diamond polishing paste	Good	Good
Dibutyl phthalate	Not Recommended	Not Recommended
o-dichlorobenzene	Not Recommended	Not Recommended
p-dichlorobenzene	Not Recommended	Not Recommended
Dichloromethane	Not Recommended	Not Recommended
Diesel fuel	Not Recommended	Good
Diesel fuel additive	Not Recommended	Good
Diethylamine	Fair	Fair
Diethylene glycol	Excellent	Excellent
Diisobutyl ketone (DIBK)	Not Recommended	Not Recommended
N, N-dimethyl acetamide	Good	Good
Dimethylformamide	Not Recommended	Good
Dimethyl sulfoxide (DMSO)	Not Recommended	Not Recommended
Dioctyl phthalate (DOP)	Not Recommended	Not Recommended
Dioxane	Not Recommended	Not Recommended
EDTA (17% solution)	Good	Good
Engine cleaner and degreaser	Not Recommended	Good
Epoxy primer (containing toluene, acetone, MEK and/or n-butyl acetate)	Not Recommended	Not Recommended
Ethanol [ethyl alcohol (95% concentration)]	Excellent	Excellent
Ethanolamine	Good	Good
Ether	Not Recommended	Not Recommended
Ethidium bromide (1.5% concentration)	No Data	No Data
2-ethoxyethanol	Good	Excellent
Ethyl acetate	Not Recommended	Not Recommended
Ethyl ether	Not Recommended	Not Recommended
Ethylene dichloride	Not Recommended	Not Recommended
Ethylene glycol	Excellent	Excellent
Ethylene oxide	Not Recommended	Not Recommended
Ferric chloride (aqueous)	Excellent	Excellent
Formaldehyde	Good	Good
Formalin (40% concentration of formaldehyde)	Good	Good
Formamide	No Data	Excellent
Formic acid	Good	Good
Freon 11	Not Recommended	Good
Freon 12	Not Recommended	Good
Freon 21	Not Recommended	Not Recommended
Freon 22	Not Recommended	Not Recommended
Fuel injector cleaner (primarily kerosene)	Not Recommended	Good
Furfural	Not Recommended	Not Recommended
Gasoline, leaded	Not Recommended	Excellent
Gasoline, unleaded	Not Recommended	Excellent
Glass ionomer dental cements	Good	Good
Glucose	Excellent	Excellent
Gluteraldehyde (50% concentration)	No Data	No Data
Glycerin	Excellent	Excellent
Glycerol	Excellent	Excellent

Chemicals	Latex	Nitrile
Grease, automotive (petroleum-based)	Red	Blue
Grease, automotive (silicon-based)	Green	Green
Grease, automotive (synthetic)	Red	Green
Heptane (in-heptane)	Red	Blue
Hexane	Red	Green
Hydraulic fluid (petroleum-based)	Red	Green
Hydrochloric acid (20% concentration)	Blue	Green
Hydrochloric acid (50% concentration)	Blue	Yellow
Hydrochloric acid (concentrated)	Green	Red
Hydroflouric acid (40% concentration)	Yellow	Green
Hydroflouric acid (concentrated)	Red	Red
Hydrogen peroxide (3% concentration)	Green	Green
Hydrogen peroxide (30% concentration)	Green	Red
Hydrogen peroxide (concentrated)	Red	Red
Hydroquinone	Green	Yellow
Hydroxylamine hydrochloride	Grey	Grey
Imidazole	Grey	Grey
Isobutanol (isobutyl alcohol)	Blue	Green
Isooctane	Red	Blue
Isopropanol (isopropyl alcohol)	Blue	Blue
Kerosene	Red	Blue
Ketones	Green	Red
Lacquers	Red	Red
Lacquer thinners	Red	Red
Lactic acid (85% concentration)	Blue	Blue
Laurel alcohol (lauryl alcohol)	Blue	Blue
Lauric acide	Red	Red
Lead acetate	Blue	Green
Linoleic acid	Red	Green
Linseed oil	Red	Green
Lubricants (containing mineral spirits as primary component)	Red	Blue
Maleic acid	Yellow	Yellow
2-Mercaptoethanol	Grey	Grey
Mercuric chloride	Blue	Blue
Mercury	Blue	Blue
Methane	Red	Blue
Methyl alcohol (methanol)	Yellow	Green
2-Methoxyethanol (ethylene glycol monomethyl)	Red	Yellow
Methyl amine	Yellow	Green
Methyl bromide	Yellow	Yellow
Methyl butyl ketone	Red	Red
Methylene chloride	Red	Red
Methyl chloride	Red	Red
Methyl ethyl ketone (MEK)	Red	Red
Methyl isobutyl ketone (MIBK)	Red	Red
Methyl methacrylate	Red	Red
Mineral spirits	Red	Blue
Monoethanolamine	Green	Green
Morpholine	Red	Red
Motor oil (includes oils made from petroleum distillates, synthetic oils, diesel oils, 2-stroke oils, and hydraulic oils)	Red	Blue
Naphtha	Red	Blue
Naphthalene	Red	Red
Nitric acid (50% concentration)	Red	Red
Nitromethane (95.5% concentration)	Yellow	Red
Nitropropane (95.5% concentration)	Red	Red
Nitrophenols	Grey	Grey
Octyl alcohol (octanel)	Green	Green
Oleic acid	Yellow	Green
Oxalic acid	Green	Green
Paint (latex-based)	Red	Yellow
Paint (oil-based)	Red	Green
Paint, automotive (paint containing VM&P naphtha, mineral spirits; with small amounts of toluene, xylene or n-butyl acetate)	Red	Green
Paint, automotive (paints containing large amounts of toluene, xylene or n-butyl acetate)	Red	Red
Paint activator, automotive (containing MEK, polysocyanane resin, and/or butyl acetate)	Red	Yellow
Paint reducers/thinners, automotive	Red	Blue
Paint reducers/thinners, automotive (aromatic hydrocarbons, e.g. toluene or xylene)	Red	Red

Chemicals	Latex	Nitrile
Paint thinner (Ducco)	Red	Red
Palmitic acid	Green	Green
Paraformaldehyde	Red	Green
Parts wash, automotive	Red	Green
Pentane	Red	Blue
Pentyl ether (same as pentane)	Red	Blue
Perchloric acid	Yellow	Red
Perchloroethylene	Red	Green
Periodic acid (50% concentration)	Grey	Grey
Petroleum distillates (naphthas)	Red	Green
Phenol (0.1% concentration)	Blue	Blue
Phenol (approx. 100% concentration)	Red	Red
Phenolphthalein (aromatic phenols)	Red	Red
Phosphoric acid (0 to 50% concentration)	Green	Green
Phosphoric acid (50-85% concentration)	Green	Red
Phosphoric acid (100% concentration)	Red	Red
Polysorbates	Grey	Grey
Potassium bromate	Blue	Blue
Potassium chloride	Blue	Blue
Potassium cyanide	Blue	Blue
Potassium dichromate (aqueous)	Green	Blue
Potassium hydroxide	Green	Green
Potassium iodide	Green	Blue
Potassium permanganate	Blue	Blue
Potassium sulfate	Green	Blue
Propyl acetate	Red	Red
Propyl alcohol	Green	Blue
Propylene (1-propene, methylethelene)	Red	Red
Propylene glycol	Blue	Blue
Pyridine	Red	Red
Rust inhibitors, automotive	Blue	Blue
Rust remover, automotive (containing <50% phosphoric acid)	Green	Green
Silver nitrate	Blue	Green
Sodium acetate (aqueous)	Blue	Green
Sodium azide (sodium salt)	Blue	Blue
Sodium bicarbonate (aqueous) [baking soda]	Blue	Blue
Sodim chloride (aqueous)	Blue	Blue
Sodium cyanide (aqueous)	Blue	Blue
Sodium hydroxide (50% concentration)	Blue	Blue
Sodium hypochlorite (bleach)	Yellow	Yellow
Sodium selenate (10% concentration)	Grey	Grey
Sodium thiosulfate (developing fluids)	Green	Green
Staining rating (all stains)	Blue	Yellow
Styrene	Red	Red
Sulfuric acid (50% concentration)	Red	Blue
Sulfuric acid	Red	Red
Tannic acid (65% concentration)	Blue	Blue
Tetrachloroethylene	Red	Yellow
Tetrahydrofuran	Red	Red
Tetramethylurea	Grey	Grey
Toluene	Red	Red
Toluene diisocyanate	Yellow	Red
Transmission fluid, Type A	Red	Blue
Transmission fluid, synthetic	Red	Green
Trichloroethylene	Red	Red
Triethanolamine	Green	Green
Triton X-100, Igepal CA, Polytergent G (octoxynol with varying ethylene oxide units)	Blue	Blue
Tung oil	Red	Blue
Turpentine	Red	Red
Undercoater, rubberized (automotive)	Red	Green
Urea	Blue	Green
Varnish	Red	Green
Vinyl chloride	Red	Red
Water	Blue	Blue
Wax remover, automotive (containing VM&P, naphtha, xylene and/or ethylbenzene)	Red	Red
Xylene (Xylo)	Red	Red

SEE PAGE 3 FOR DISCLAIMER

SAFETY DISCLAIMER

This chart is intended to be used as a guide only. It is intended to guide and inform qualified professionals engaged in assuring safety in the workplace. Because the conditions of ultimate use are beyond our control, and because we can't run permeation tests in all possible work environments and across all combinations of chemicals and solutions, these recommendations are advisory only. The suitability of a product for a specific application must be determined by testing by the purchaser.

The data in this guide are subject to revision as additional knowledge and experience are gained. Test data herein reflect lab performance of partial gloves and not necessarily the complete unit. Anyone intending to use these recommendations should first verify the glove selected is suitable for the intended use and meets all appropriate health standards.

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CONTACT INFO:

Kent Automotive, Inc • kent-automotive.com • 888.937.5368

