



# CHEMICAL RESISTANCE GUIDE AUTOMOTIVE INDUSTRY

FOR MICROFLEX LATEX AND NITRILE GLOVES



The following chemical resistance ratings are based on published research data. Microflex® gloves have not been individually tested against the chemicals contained in this chart.

## Chemicals

	Latex (NATURAL RUBBER)	Nitrile (BUNA N)
Acetone	Red	Red
Aircraft stripper	Red	Green
Antifreeze (methanol-based)	Blue	Blue
Boric acid	Blue	Blue
Brake cleaner (containing hexane or ethanol)	Red	Blue
Brake cleaner, non-chlorinated (containing acetone, n-heptane and/or xylene)	Red	Red
Brake fluid	Green	Green
Carburetor cleaner (typically xylene, toluene and/or acetone)	Red	Red
Diesel fuel	Red	Green
Diesel fuel additive	Red	Green
Engine cleaner and degreaser (containing kerosene, petroleum distillates or propane isobutane-o-butane as main components)	Red	Green
Epoxy primer (containing toluene, acetone, MEK and/or n-butyl acetate)	Red	Red
Ethanol (ethyl alcohol) (95% concentration)	Blue	Blue
Freon 11	Red	Green
Freon 12	Red	Green
Freon 21	Red	Red
Freon 22	Red	Red
Fuel injector cleaner (primarily kerosene)	Red	Green
Gasoline, leaded	Red	Blue
Gasoline, unleaded	Red	Blue
Grease, automotive (petroleum-based)	Red	Blue
Grease, automotive (silicon-based)	Green	Green
Grease, automotive (synthetic)	Red	Green

## Chemicals

	Latex (NATURAL RUBBER)	Nitrile (BUNA N)
Hexane	Red	Green
Hydraulic fluid (petroleum-based)	Red	Green
Ketones	Green	Red
Lacquers	Red	Red
Lacquer thinners	Red	Red
Lubricants (containing mineral spirits as primary component)	Red	Blue
Mineral spirits	Red	Blue
Motor oil (includes oils made from petroleum distillates, synthetic oils, diesel oils, 2-stroke oils, and hydraulic oils)	Red	Blue
Paint (latex-based)	Red	Yellow
Paint (oil-based)	Red	Green
Paint, automotive (paint containing V.M.&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, polyisocyanate resin, and/or butyl acetate)	Red	Yellow
Paint reducers/thinners, automotive (aliphatic hydrocarbons, eg. V.M.&P. naphtha or mineral spirits)	Red	Blue
Paint reducers/thinners, automotive (aromatic hydrocarbons, eg. toluene or xylene)	Red	Red
Paint thinner (Duxu)	Red	Red
Parts wash, automotive (containing naphtha, n-hexane, cyclohexane and/or MEK)+A64	Red	Green
Petroleum distillates (naphthas)	Red	Green
Rust inhibitors, automotive	Blue	Blue
Rust remover, automotive (containing <50% phosphoric acid)	Green	Green
Transmission fluid, Type A	Red	Blue
Transmission fluid, synthetic	Red	Green
Wax remover, automotive (containing V.M.&P. naphtha, xylene and/or ethylbenzene)	Red	Red

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### General Information and Cautions

Your understanding of how to use thin-film gloves is extremely important to your safety.

Microflex® gloves are intended for use as protection against incidental exposure to chemicals and other harmful substances. These gloves do not offer protection against all chemicals under all conditions, and are not designed to provide protection against prolonged or continuous exposure to harmful substances.

As a precaution, glove users are advised to change gloves immediately upon exposure to harmful substances. It is the responsibility of the user to choose the appropriate glove type, thickness and to change gloves as they become contaminated.

This Chemical Resistance Chart is offered as a guide and for reference purposes only. The chemical resistance ratings are based on published research data. Microflex cannot certify the accuracy of the data and therefore does not represent nor warrant that the information in the chemical resistance chart is accurate or complete. Microflex® gloves have **NOT** been individually tested against the chemicals contained in this chart. The barrier properties of each glove type may be affected by differences in material thickness, chemical concentration, temperature, and length of exposure to chemicals.

### References

Chemical Resistance Guide to Elastomers III; A Guide to Chemical Resistance of Rubber and Elastomeric Compounds, Compass Publications, La Jolla, CA, 2005. Plastics Design Library-Chemical Resistance of Plastics and Elastomers, 3rd edition, William Andrew Publishing, 2003. Dupont Dow Elastomers Chemical Resistance Guide; The Los Angeles Rubber Group; www.dupont-dow.com

### - CHEMICAL RATINGS KEY -

Blue	EXCELLENT
Green	GOOD
Yellow	FAIR
Red	NOT RECOMMENDED
Grey	NO DATA