



Nitrile Gloves Chemical Resistance & Barrier Guide

The chemical compatibility information on the following chart is intended to provide general information about the reaction of Nitrile films to the commonly used chemicals listed.

The ratings scale takes into consideration three primary factors:

1. the ability of the chemical to permeate (pass through) the glove film;
2. the ability of the chemical to degrade (break down) the physical structure of the glove film;
3. the risk that contact exposure to the chemical poses to the glove wearer.

Pacifica's Nitrile gloves are thin gauge disposable products designed to provide barrier protection and tactile sensitivity to the wearer. Our gloves are not designed for application involving prolonged, direct exposure to chemicals. All chemicals should be thoroughly evaluated by the wearer prior to any potential exposure. Our intent in providing this chemical compatibility information is to provide a guideline for use of our gloves in applications where incidental splash exposure to various chemicals may occur.

The compatibility of the glove films with each chemical is also coded:

POOR chemical resistance

FAIR chemical resistance

GOOD to EXCELLENT chemical resistance

The following information is based upon published research data. Pacifica gloves have not been individually tested against these chemicals. Variability in material thickness, chemical concentration, temperature and length of exposure to chemicals will affect specific performance.



Nitrile Gloves Chemical Resistance & Barrier Guide

Chemical Name

ACETALDEHYDE	POOR
ACETIC ACID	GOOD
ACETIC ANHYDRIDE	FAIR
ACETONE	FAIR
ACETONITRILE	FAIR
ACRYLIC ACID	GOOD
AMMONIUM ACETATE	EXCELLENT
AMMONIUM CARBONATE	EXCELLENT
AMMONIUM FLUORIDE, 30-70%	EXCELLENT
AMMONIUM HYDROXIDE, 30-70%	EXCELLENT
AMMONIUM HYDROXIDE, <30%	EXCELLENT
AMYL ALCOHOL	EXCELLENT
ANLINE	FAIR
AQUA REGIA	POOR
AZT	No info
BENZALDEHYDE	POOR
BENZENE	FAIR
BORIC ACID	EXCELLENT
BROMOPROPIONIC ACID	FAIR
BUTYL ACRYLATE	POOR
BUTYL CELLUSOLVE	GOOD
CALCIUM HYDROXIDE	EXCELLENT
CARBON DISULFIDE	GOOD
CARBON TETRACHLORIDE	POOR
CHLOROBENZENE	POOR
CHLORODIBROMOMETHANE	POOR
CHLOROFORM	POOR
CHLORONAPHTHALENES	POOR
CHROMIC ACID	FAIR
CISPLATIN	GOOD
CITRIC ACID, 30-70%	EXCELLENT
CYCLOHEXANE	EXCELLENT
CYCLOHEXANOL	EXCELLENT
CYCLOHEXANONE	POOR
CYCLOHEXYLAMINE	POOR
DI-N-AMYLAMINE	EXCELLENT
DI-N-BUTYAMINE	EXCELLENT
DI-N-BUTYL PHTHALATE	EXCELLENT
DI-N-OCTYL PHTHALATE	EXCELLENT
DIACETONE ALCOHOL	GOOD
DIALLYLAMINE	POOR
DICHLOROACETYL CHLORIDE	POOR



Nitrile Gloves Chemical Resistance & Barrier Guide

Chemical Name

DIESEL FUEL	EXCELLENT
DIETHANOLAMINE	EXCELLENT
DIETHYLAMINE	GOOD
DIETHYLENE GLYCOL	EXCELLENT
DIETHYLENETRIAMINE	POOR
DIISOBUTYL KETONE	GOOD
DIISOBUTYLLAMINE	EXCELLENT
DIMETHYL ETHER	GOOD
DIMETHYL SULFOXIDE (DMSO)	GOOD
DIMETHYLACETAMIDE	FAIR
DIMETHYLFORMAMIDE (DMF)	POOR
1,3-DIOXANE	POOR
1,4-DIOXANE	POOR
EIPCHLOROHYDRIN	POOR
ETHANOL	EXCELLENT
ETHYL ACETATE	POOR
ETHYL ETHER	GOOD
ETHYLENE GLYCOL DIMETHYL ETHER	FAIR
ETHYLENE DICHLORIDE	POOR
ETHYLENE GLYCOL	EXCELLENT
FORMALDEHYDE, 30-70%	EXCELLENT
FORMIC ACID	GOOD
FREON 113 OR TF	EXCELLENT
FREON TMC	FAIR
FURFURAL	POOR
GASOLINE, 40-50% AROMATICS	EXCELLENT
GASOLINE, UNLEADED	GOOD
GLUTARALDEHYDE, <5%	GOOD
GLYCEROL	EXCELLENT
HEPTANES	EXCELLENT
HEXAMTHYLDISILOXANE	GOOD
HEXANE	EXCELLENT
HYDRAZINE	EXCELLENT
HYDROCHLORIC ACID, <30%	GOOD
HYDROCHLORIC ACID, 30-70%	GOOD
HYDROFLURIC ACID <50%	EXCELLENT
ISOBUTYL ALCOHOL	EXCELLENT
ISOCTANE	EXCELLENT
ISOPROPYL ALCOHOL	EXCELLENT
ISOPROPYLAMINE	POOR
JET FUEL, <30% AROMATICS 73-248C	GOOD
KEROSENE	EXCELLENT



Nitrile Gloves Chemical Resistance & Barrier Guide

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LACTIC ACID	EXCELLENT
LAURIC ACID	GOOD
MALATHION, 30-70%	EXCELLENT
MALEIC ACID	GOOD
METHANOL	FAIR
METHYL ACETATE	POOR
METHYL ETHYL KETONE	POOR
METHYL ISOBUTYL KETONE	POOR
METHYL METHACRYLATE	POOR
METHYLENE CHLORIDE	POOR
N-AMYL ACETATE	FAIR
N-BUTYL ACETATE	FAIR
N-BUTYL ALCOHOL	EXCELLENT
N-METHYL-2-PYRROLIDONE	POOR
N-NITROSODIETHYLAMINE	POOR
N-PROPYL ALCOHOL	EXCELLENT
NAPHTHA, 15-20% AROMATICS	EXCELLENT
NAPHTHA, <3% AROMATICS	EXCELLENT
NITRIC ACID, <30%	EXCELLENT
NITRIC ACID, 30-70%	POOR
NITROBENZENE	FAIR
NITROETHANE	POOR
1-NITROPROPANE	POOR
2-NITROPROPANE	POOR
OCTANE	EXCELLENT
OCTYL ALCOHOL	EXCELLENT
OLEIC ACID	EXCELLENT
OXALIC ACID	EXCELLENT
PALMITIC ACID	EXCELLENT
PCB (POLYCHLORINATED BIPHENYLS)	GOOD
PENTACHLOROPHENOL	GOOD
PENTANE	EXCELLENT
PERCHLORIC ACID, 30-70%	EXCELLENT
PERCHLOROETHYLENE	GOOD
PEROXYACETIC ACID	POOR
PETROLEUM ETHERS, 80-110C	GOOD
PHENOL, >70%	GOOD
PHOSPHORIC ACID, >70%	EXCELLENT
PICRIC ACID	EXCELLENT
POTASSIUM HYDROXIDE	EXCELLENT
POTASSIUM IODIDE	EXCELLENT
PROPYL ACETATE	FAIR



Nitrile Gloves Chemical Resistance & Barrier Guide

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PYRIDINE	POOR
SILICON ETCH	POOR
SILVER NITRATE	GOOD
SODIUM CARBONATE	EXCELLENT
SODIUM CHLORIDE	EXCELLENT
SODIUM FLURIDE	EXCELLENT
SODIUM HYDROXIDE, 30-70%	EXCELLENT
SODIUM HYPOCHLORITE	EXCELLENT
SODIUM THIOSULFATE	EXCELLENT
STYRENE	POOR
SULFURIC ACID, 30-70%	FAIR
SULFURIC ACID, <30%	No info
SULFURIC ACID >70%	POOR
TANNIC ACID	GOOD
1,2,4,5-TETRACHLOROBENZENE	EXCELLENT
1,1,1,2-TETRACHLOROETHANE	FAIR
TETRAHYDROFURAN	FAIR
TOLUENE	FAIR
TOLUENE-2,4-DIISOCYANATE (TDI)	POOR
1,2,4-TRICHLOROBENZENE	FAIR
1,1,1-TRICHLOROETHANE	POOR
1,1,2-TRICHLOROETHANE	POOR
TRICHLOROETHYLENE	POOR
TRICRESYL PHOSPHATE	GOOD
TRIETHANOLAMINE	EXCELLENT
TURPENTINE	EXCELLENT
XYLENES	FAIR