

Protective Glove Recommendations

This chart is a guide to the barrier protection from chemicals provided by materials most commonly used to fabricate medical gloves. Not all gloves from Allegiance have been tested for breakthrough resistance to each of the chemicals listed. Most of the information shown was compiled from published and unpublished results of permeation testing completed by researchers using ASTM or similar methods. Breakthrough resistance is only one of many factors to consider in the selection of protective clothing.



COLOR-CODED RECOMMENDATIONS FOR SPLASH PROTECTIVE BARRIERS

- Recommended > 8 h.
- Recommended > 4 h.
- Caution 1-4 h.
- Not recommended < 1 h. (Degradation may occur)
- Not tested.

- Duraprene™ Synthetic Surgical 2D72A0I-7I
- Powder-Free Duraprene™ Synthetic Surgical 2D71B0I-7I

- Flexam® Powder-Free Nitrile Exam N8800I-8804I

- Ultrafree™ Powder-Free Surgical 2D72F0I-7I
- Triflex® Powder-Free Surgical 2D7140I-7I
- Positive Touch Powder-Free Exam 8841-8844
- Flexam® Powder-Free Exam 8876-8878

CHEMICAL NAMES	NEOPRENE		
	NITRILE RUBBER	NATURAL RUBBER LATEX	
Acetaldehyde	●	●	●
Acetic acid	●	●	●
Acetic anhydride	●	●	●
Acetone	●	●	●
Acetonitrile	●	●	●
Acrylic acid	●	●	●
Ammonium acetate, sat.	●	●	●
Ammonium carbonate, sat.	●	●	●
Ammonium fluoride, 30-70%	●	●	●
Ammonium hydroxide, <30%	●	●	●
Ammonium hydroxide, 30-70%	●	●	●
Aniline	●	●	●
Aqua regia	●	●	●
AZT®	●	●	●
Benzaldehyde	●	●	●
Benzene	●	●	●
Boric acid	●	●	●
3-Bromopropionic acid	●	●	●
n-Butanol	●	●	●
n-Butyl acetate	●	●	●
Butyl acrylate	●	●	●
Calcium hydroxide	●	●	●
Carbon disulfide	●	●	●
Carbon tetrachloride	●	●	●
Chlorobenzene	●	●	●
Chloroform	●	●	●
1-Chloronaphthalene	●	●	●
Chromic acid	●	●	●
Citric acid, 30-70%	●	●	●
Cyclohexane	●	●	●
Cyclohexanol	●	●	●
Cyclohexanone	●	●	●
Cyclohexylamine	●	●	●
Di-n-amylamine	●	●	●
Di-n-butylamine	●	●	●
Di-n-butylphthalate	●	●	●
Di-n-octylphthalate	●	●	●
Diallylamine	●	●	●
Dichloroacetyl chloride	●	●	●
Diesel fuel	●	●	●
Diethanolamine	●	●	●
Diethylamine	●	●	●
Diethylene glycol	●	●	●
Diethylenetriamine	●	●	●
Diisobutyl ketone	●	●	●
Diisobutylamine	●	●	●
Dimethyl ether	●	●	●
Dimethyl sulfoxide	●	●	●

CHEMICAL NAMES	NEOPRENE		
	NITRILE RUBBER	NATURAL RUBBER LATEX	
Dimethylacetamide	●	●	●
Dimethylformamide	●	●	●
1,3-Dioxane	●	●	●
1,4-Dioxane	●	●	●
Epichlorohydrin	●	●	●
Ethanol	●	●	●
Ethyl acetate	●	●	●
Ethyl ether	●	●	●
Ethylene dichloride	●	●	●
Ethylene glycol	●	●	●
Ethylene glycol dimethyl ether	●	●	●
Formaldehyde	●	●	●
Formic acid	●	●	●
Freon 113 TF	●	●	●
Freon TMC	●	●	●
Furfural	●	●	●
Gasoline, 40-55% aromatics	●	●	●
Gasoline, unleaded	●	●	●
Glutaraldehyde	●	●	●
Glycerol	●	●	●
Heptane	●	●	●
Hydrazine	●	●	●
Hydrochloric acid, <30%	●	●	●
4-Hydroxy-4-methyl-2-pentanone	●	●	●
Isobutanol	●	●	●
Isooctane	●	●	●
Isopropylamine	●	●	●
Jet fuel, <30% aromatics	●	●	●
Kerosene	●	●	●
Lactic acid	●	●	●
Lauric acid, 30-70%	●	●	●
Malathion, 30-70%	●	●	●
Maleic acid	●	●	●
Methanol	●	●	●
Methyl acetate	●	●	●
Methyl methacrylate	●	●	●
Methylene chloride	●	●	●
Methylethyl ketone	●	●	●
Methylisobutyl ketone	●	●	●
N-Methyl-2-pyrrolidone	●	●	●
N-Nitrosodiethylamine	●	●	●
Naphtha, <3% aromatics	●	●	●
Naphtha, 15-20% aromatics	●	●	●
Nitric acid, <30%	●	●	●
Nitric acid, 30-70%	●	●	●
Nitrobenzene	●	●	●
Nitroethane	●	●	●
1-Nitropropane	●	●	●

CHEMICAL NAMES	NEOPRENE		
	NITRILE RUBBER	NATURAL RUBBER LATEX	
2-Nitropropane	●	●	●
n-Octane	●	●	●
Oleic acid	●	●	●
Oxalic acid	●	●	●
Palmitic acid	●	●	●
Pentachlorophenol	●	●	●
n-Pentane	●	●	●
n-Pentanol	●	●	●
Perchloric acid, 30-70%	●	●	●
Perchloroethylene	●	●	●
Peroxyacetic acid	●	●	●
Petroleum ethers, <1% aromatics	●	●	●
Phenol, >70%	●	●	●
Phosphoric acid, >70%	●	●	●
Picric acid	●	●	●
Polychlorinated biphenyls	●	●	●
Potassium hydroxide, 30-70%	●	●	●
Potassium iodide	●	●	●
n-Propanol	●	●	●
Propyl acetate	●	●	●
Pyridine	●	●	●
Silicon etch	●	●	●
Sodium carbonate	●	●	●
Sodium chloride, sat.	●	●	●
Sodium fluoride, sat.	●	●	●
Sodium hydroxide, 30-70%	●	●	●
Sodium hypochlorite, 30-70%	●	●	●
Sodium thiosulfate, sat.	●	●	●
Styrene	●	●	●
Sulfuric acid, <30%	●	●	●
Sulfuric acid, >70%	●	●	●
Sulfuric acid, 30-70%	●	●	●
Tannic acid	●	●	●
1,2,4,5-Tetrachlorobenzene	●	●	●
1,1,1,2-Tetrachloroethane	●	●	●
Tetrahydrofuran	●	●	●
Toluene	●	●	●
Toluene-2,4-diisocyanate	●	●	●
1,2,4-Trichlorobenzene	●	●	●
1,1,1-Trichloroethane	●	●	●
1,1,2-Trichloroethane	●	●	●
Trichloroethylene	●	●	●
Tricresyl phosphate	●	●	●
Triethanolamine	●	●	●
Turpentine	●	●	●
Xylene	●	●	●

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Chemical Resistance and Barrier Protection

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