



ISO 9001:2000  
Registered

**GUARDIAN**

**CHEMICAL PROTECTIVE GLOVES**  
by Guardian Manufacturing Company

# Neoprene Glove

Style # IN-35

[www.guardian-mfg.com](http://www.guardian-mfg.com)

## The Neoprene

A flame resistant glove ideal for Haz-Mat and plant contingency teams. Straight-hand design.

Length . . . . . 14"  
Sizes . . . . . 9,10,11,12  
Thicknesses . 35 mil  
Finishes . . . . . smooth  
Design . . . . . straight-hand

CHEMICAL	Break Through time (min.)	Permeation rate (ug/cm2-min.)
1, 1, 1 Trichloroethane	23	>120
1, 3 Butadiene	71	>50
Acetaldehyde	NT	NT
Acetic Acid (glacial)	ND	NA
Acetone	49	>500
Acetonitrile	120	9.53
Ammonia gas	ND	NA
Ammonium Hydroxide	ND	NA
Ammonium Nitrate	ND	NA
Aniline	53	>14
Benzene	NT	NT
Butyl Acetate	NT	NT
p-tert-Butyl Toluene	NT	NT
Carbinol	239	72
Carbon Disulfide	4	>500
Chlorine	120	>50
Chloromethane	39	68
Chloroethene	23	>100
Cyclohexane	NT	NT
Cyclohexanol	97	13
Cyclohexanone	NT	NT
Dibutyl Phthlate	NT	NT
Diethylamine	15	>500
Dimethylformamide (DMF)	96	>500
Dioxane	NT	NT
Divinyl Benzene	NT	NT
Ethanal	NT	NT
Ethanamine	NT	NT
Ethyl Acetate	24	>500
Ethyl Alcohol	ND	NA
Ethyl Aldehyde	NT	NT
Ethyl Benzene	NT	NT
Ethylamine	NT	NT
Ethylene Oxide	40	>500
Flouhydric Acid	NT	NT

CHEMICAL	Break Through time (min.)	Permeation rate (ug/cm2-min.)
Gasoline	148	32
N-Hexane	57	>500
Hydrochloric Acid (37%)	ND	NA
Hydrofluoric Acid (49%)	ND	NA
Hydrogen Chloride	ND	NA
Hydrogen Fluoride (99%)	300	4.4
Methyl Alcohol	239	72
Methyl Chloride	39	68
Methyl Ethyl Ketone (MEK) 99%	NT	NT
Methyl Isobutyl Ketone (MIBK) 99.5%	NT	NT
Methylene Chloride	NT	NT
Methylchloroform	23	>100
Muriatic Acid	ND	NA
N-ethylethanamine	15	>500
Nitric Acid (conc.)	NT	NT
Nitric Acid (red fuming)	NT	NT
Nitrobenzene	84	>500
Nitropropane	88	>85
Oleum	170	>500
Pentachlorophenol	ND	NA
Pentane	36	.1
Phenol	456	31
Phenylamine	53	>14
Phosphoric Acid	NT	NT
Potassium Hydroxide	ND	NA
Propyl Acetate	NT	NT
Sodium Hydroxide	ND	NA
Sulfuric Acid	ND	NA
Sulfuric Acid (fuming)	170	>500
Tetrachloroethylene	48	>500
Tetrahydrofuran	12	>500
Toluene	20	>500
Toluene Diisocyanate	NT	NT
Xylene	25	>500
Vinylethylene	71	>500

All tests above performed per ASTM F739 by TRI/Environmental, Inc. at ambient temperature for 8 hours. Tests were performed under laboratory conditions and do not represent actual usage conditions. TRI/Environmental makes no warranties or other guarantees concerning protection by these materials and assumes no liability for use of this material with the chemicals tested.

**The user should determine the applicability of conditions when assessing suitability of the actual anticipated exposures.**

The breakthrough times and permeation rates reported are the average of three test replicates. ND = no breakthrough in 8 hours; NA = not applicable; NT = not tested. Minimum detection limit (ppm), 1.0 or less (except when that is not possible.)