

The following table shows an overview of the most commonly used Semperguard® disposable gloves and the most frequently required chemical resistances.

CHEMICAL RESISTANCE LIST

Break-through time according to EN 374-3 in minutes

CHEMICAL (SYNONYMS)	SEMPERGUARD® Nitrile Xtension (300)	SEMPERGUARD® Nitrile Xpert	SEMPERGUARD® Nitrile Comfort	SEMPERGUARD® Nitrile Xenon	SEMPERGUARD® Nitrile Xtra Lite / Style	SEMPERGUARD® Latex PF IC
Acetic acid (10%) (methyl carbon acid)	Level 4		Level 5	Level 6	Level 6	Level 2
Acetone (2- propanone, methyl ketone)	X	X	X	X	X	X
Acetonitrile (cyanomethane, ethyl nitrile)	X	X	X	X	X	X
Acryl amide (40%) (acrylic acid amide)	Level 6	Level 6	Level 6	Level 6	Level 6	
Ammoniumhydroxid (25 %)	Level 1		Level 1			A
Benzalconiumchloride liquid (Quats)				Level 6		Level 6
Chloroform (trichloromethane)	X	X	X	X	X	X
Cyclohexanol (Hexalin / at 23°C)	Level 3	Level 4	Level 2			Level 1
Dichloromethane (methylene chloride, Freon 30)	X	X	X	X	X	X
Diethyl amine (DEA)	X	X	X	X	X	X
Diethyl ether (diethyloxid, ethoxyethane)	X	X	X	X	X	X
Dimethylsulfoxide DMSO (deltan, demasorb)	X	X	X	X	X	X
Ethanol (20%) (ethyl alcohol)	Level 1	Level 6	A	Level 1	Level 1	A
Ethanol (70%) (ethyl alcohol)	A	Level 1	A	A	A	X
Ethanol p.a. (ethyl alcohol)	A		A	A	A	X
Ethidium bromide (1%) (homidium bromide)	Level 6	Level 6	Level 6	Level 6	Level 6	X
Ethyl acetate (Aceto acid ether)	X	A	X	X	X	X
Formaldehyde (37%) with Methanol (10%) (formalin, methyl aldehyde) *	Level 5	Level 6	Level 6	Level 1	Level 1	
Gasoline (heavy, bp 150 – 190°C)	X	X	X	X	X	X
Glutaraldehyde (5%) (1,3- diformylpropane; Glutaral)	Level 6	Level 6	Level 6	Level 6	Level 6	
Heptane – n	X	A	X	X	X	X
Hexane – n	X	A	X	X	X	X
Hydrofluoric acid (40%)	X	Level 1	X			
Isopropyl alcohol (40%) (2- propanol, isopropanol, IPA)	Level 1	Level 1	A	Level 1	Level 1	A
Isopropyl alcohol p.a. (2- propanol, isopropanol, IPA)	Level 1	Level 1	A	A	A	A
Methanol (5%) (methyl alcohol)	Level 6		Level 6			
Methanol p.a. (methyl alcohol)	A	A	A	X	X	X
Ninhydrin (0.2%)		Level 6	Level 6		Level 6	
Nitric acid (10%) (Aqua fortis, spirit of nitre)	Level 6	Level 6	Level 6	Level 6	Level 6	Level 6
Nitric acid (36%) (Aqua fortis, spirit of nitre)	Level 3	Level 4	Level 3	A	A	
Phenol (80%) (carbolic acid, benzenol, hydroxybenzene)	X	Level 2	X	X	X	
Phosphoric acid (30%) (orthophosphoric acid)	Level 6		Level 6	Level 6	Level 6	
Potassium hydroxide (30%) (caustic potash, lye)	Level 6	Level 6	Level 6	Level 6	Level 6	
Sodium hydroxide (30%)(caustic soda, lye, white caustic)	Level 6	Level 6	Level 6	Level 6	Level 6	Level 6
Sodium hydroxide (40%)(caustic soda, lye, white caustic)	Level 6	Level 6	Level 6	Level 6	Level 6	Level 5
Sulphuric acid (96%) (vitriol)	Level 1	Level 1	A			Level 1
Toluene (methylbenzol, phenylmethan, toluol)	X	X	X	X	X	X
Trichlorethane (methyltrichloromethane)	X	X	X	X	X	X
Xylene (xylol, dimethylbenzene)	X	X	X	X	X	X

- Not recommended
- A: only recommended for splash protection - change gloves immediately after contact
- Level 1: recommended for short contact (from 10 to 30 min)
- Level 2: for applications from 30 to 60 min

- Level 3: for applications from 60 to 120 min
- Level 4: for applications from 120 to 240 min
- Level 5: for applications from 240 to 480 min
- Level 6: for applications over 480 min*
- Not tested

* Higher measurement values not available