

INFORMS

February 2017

Recommendation on Chemical Resistance

Testing according to EN 374-1 and EN 374-3.

Chemical (Synonyms)	CAS-Number	Supreme/ Supreme Plus	Syntegra IR	Syntegra Green	Supreme Green	Derma PF
		Latex	Polyisopren (Latex free)	Polyisopren (Latex free)	Latex	Latex
Acetic acid (10%) (methylcarbon acid)	64-19-7	Level 6	Level 6	Level 6	n.t.	Level 4
Acetone (2- propanone, methyl ketone)	67-64-1	X	X	X	X	X
Acetonitrile (cyanomethane, ethyl nitrile)	75-05-8	A	A	A	n.t.	A
Acrylamid (40%) (acrylic acid amide)	79-06-1	Level 6	Level 6	Level 6	n.t.	Level 6
Ammoniumhydroxid (25 %)	1336-21-6	A	Level 1	Level 1	n.t.	A
Chlorhexidindigluconat (0,5 %)		Level 6	Level 6 *	Level 6 *	n.t.	Level 6 *
Chlorhexidin (4 %)		Level 6 *	Level 6 *	Level 6 *	n.t.	Level 6 *
Chloroform (trichloromethane, methyl trichloride)	67-66-3	X	X	X	X	X
Cyclohexanol	108-93-0	Level 2	Level 2	Level 2	n.t.	A
Dichlormethane (methylene chloride, Freon 30)	75-09-2	X	X	X	X	X
Diesel fuel (100 %)		A	A	A	n.t.	A
Diethylamine DEA	109-89-7	X	X	X	X	X
Diethylether (diethyloxid, ethoxyethane, anesthetic ether)	60-29-7	X	X	X	X	X
Dimethylsulfoxide DMSO (deltan, demasorb)	67-68-5	Level 2	Level 3	Level 3	n.t.	Level 1
Ethanol (20 %) (ethyl alcohol)	64-17-5	A	A	A	A	A
Ethanol (80 %) (ethyl alcohol)	64-17-5	A	A	A	A	A
Ethidium bromide (1 %) (homidium bromide)	1239-45-8	Level 6	Level 6	Level 6	n.t.	Level 6
Ethyl acetate (Aceto acid ether)	141-78-6	A	A	A	X	X
Formaldehyde (37 %) in Methanol (10 %) **	50-00-0	Level 6	Level 6	Level 6	n.t.	Level 2 *
Glutaraldehyde (5 %) (1,3- diformylpropane; Glutaral)	111-30-8	Level 6	Level 6	Level 6	n.t.	Level 6
Heptan – n	142-82-5	X	X	X	X	X


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		Latex	Polyisopren (Latex free)	Polyisopren (Latex free)	Latex	Latex
Hexan – n	110-54-3	X	X	X	X	X
Hydrochloric acid (10 %) (chlorohydric acid)	7647-01-0	Level 6	Level 6	Level 6	Level 1	Level 6
Hydrochloric acid (36%) (chlorohydric acid)	7647-01-0	Level 1	Level 3	Level 3	Level 1	Level 2
Iodine (1 %) in Alcohol (70 %) ***	7553-56-2	Level 6	Level 6	Level 6	n.t.	Level 6
Isopropyl alcohol (2- propanol, isopropanol, IPA)	67-63-0	A	A	A	A	A
Linseed oil		Level 6 *	Level 6 *	Level 6 *	n.t.	n.t.
Methanol (methyl alcohol, carbinol)	67-56-1	A	A	A	A	A
Methylmethacrylat (MMA)	80-62-6	A	A	A	n.t.	A
Nitric acid (10%) (azotic acid)	7697-37-2	Level 6	Level 6	Level 6	Level 3	Level 6
Nitric acid (50%) (azotic acid)	7697-37-2	Level 3	Level 5	Level 5	Level 3	Level 3
Povidon-iodine 10%	25655-41-8	Level 6	Level 6	Level 6	Level 6	Level 6
Sodium hydroxide (30%) (caustic soda, white caustic)	1310-73-2	Level 6	Level 6	Level 6	n.t.	Level 6
Sodium hydroxide (40%) (caustic soda, white caustic)	1310-73-2	Level 6	Level 6	Level 6	n.t.	Level 6
Sodiumhypochlorite 10 %	7681-52-9	Level 6	Level 6	Level 6	Level 6	Level 6
Sulfuric acid (30%) (vitriol)	7664-93-9	Level 6	Level 1	Level 1	Level 1	Level 6
Sulfuric acid (96%) (vitriol)	7664-93-9	Level 1	Level 1	Level 1	Level 1	Level 1
Toluene (methylbenzol, phenylmethan, toluol)	108-88-3	X	X	X	X	X
Trichlorethane (methyltrichloromethane, chlorotene)	71-55-6	X	X	X	X	X
Xylol (Dimethylbenzol, Xylene)	1330-20-7	A	A	A	n.t.	X

- * Tested in accordance with EN 374-3 and a minimum detectable rate of $10 \mu\text{g} \cdot \text{cm}^{-2} \cdot \text{min}^{-1}$.
+ Tested in accordance with EN 374-3 and a minimum detectable rate of $15 \mu\text{g} \cdot \text{cm}^{-2} \cdot \text{min}^{-1}$.
** Only formaldehyde (37%) is the challenge chemical which would have been detected.
iodine (1%) is the challenge chemical which would have been detected.

X not recommended
Level 1 for contact up to 10 min
Level 3 for contact up to 60 min
Level 5 for contact up to 240 min
n.t. not testet

A for splash contact recommended
Level 2 for contact up to 30 min
Level 4 for contact up to 120 min
Level 6 for contact up to 480 min

Disclaimer: Sempermed wants to state that the values for the permeation levels for all Sempermed and Industrial gloves are based on tests performed in laboratory under fixed conditions and cannot reflect all actual "in use"- circumstances. As a rule, tests and certificates can only be regarded as general information and will not discharge the user from his duty to make sure before the use that the glove will correspond to his actual protection needs. When working with materials harmful to the skin before starting to work please always check the glove for any defects. Recommendation on chemical resistance is not part of the specification. If there's any doubt ask at your supplier or Semperit directly. www.semperitgroup.com.


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