

INFORMS

July 2016

Recommendation on chemical resistance

Medical gloves **Sempermed® Supreme**, **Sempermed® Syntegra IR**, **Sempermed® Syntegra Green**, **Sempermed® Supreme Green** and **Sempermed® Derma PF** for single use have been tested in accordance with EN 374-3 “Determination of resistance to permeation by chemicals”

Chemikal	CAS	Supreme	Syntegra IR	Syntegra Green	Supreme Green	Derma PF
(Synonyms)		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	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	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
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.

Chemikal	CAS	Supreme	Syntegra IR	Syntegra Green	Supreme Green	Derma PF
(Synonyms)		Latex	Polyisopren (Latex free)	Polyisopren (Latex free)	Latex	Latex
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-iod 10%	7681-52-9	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 10µg/cm²/min.
- + Tested in accordance with EN 374-3 and a minimum detectable rate of 15µg/cm²/min.
- ** Only formaldehyde 37% is the challenge chemical which would have been detected.
- *** Only Iodine 1% is the challenge chemical which would have been detected.

X not recommended
A for splash contact recommended
Level 1 for short contact recommended
Level 2 for contact up to 60 min recommended
Level 3 for contact up to 120 min recommended
Level 4 for contact up to 240 min recommended
Level 5 for contact up to 480 min recommended
Level 6 for contact longer than 480 min recommended
n.t. not tested

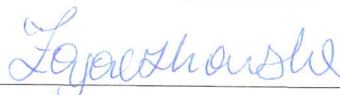
Disclaimer: Sempermed wants to state that the values for the permeation levels for all Sempermed and Industrial gloves are based on tests performed in laboratory under fixed conditions and cannot reflect all actual "in use"- circumstances. As a rule, tests and certificates can only be regarded as general 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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