

Biogel® PI Micro range

Permeability: Breakthrough time (BTT) is the time taken between the application of the test chemical into the test cell to when permeation rate reaches 0.1 µg/cm²/min detection (ASTM F739), or 1 µg/cm²/min detection (EN 16523-1).

Chemical tested	CAS no. (active ingredient)	Concentration	Biogel PI Micro REF 485			Biogel PI Micro Indicator Underglove REF 489			Biogel PI Micro Indicator System REF 483		
			ASTM F739 0.1 µg/cm²/min	EN 16532-1 1 µg/cm²/min	Performance level EN 374-1	ASTM F739 0.1 µg/cm²/min	EN 16532-1 1 µg/cm²/min	Performance level EN 374-1	ASTM F739 0.1 µg/cm²/min	EN 16532-1 1 µg/cm²/min	Performance level EN 374-1
Acetic Acid	64-19-7	99.8%	7.8	9.1	0	8	8.5	0	not tested	not tested	not tested
Acetone	67-64-1	≥99%	1.2	1.6	0	1	1.1	0	not tested	not tested	not tested
Betadine antiseptic (Povidone iodine)	25655-41-8	30%	>480	>480	6	not tested	not tested	not tested	>480	>480	6
Betadine scrub (Povidone iodine)	25655-41-8	30%	>480	>480	6	not tested	not tested	not tested	>480	>480	6
Cidex OPA	643-79-8	100%	32	>480	6	not tested	not tested	not tested	>480	>480	6
Ethyl alcohol (Ethanol)	64-17-5	100%	1.7	3	0	2	4.8	0	11	21	1
Ethyl alcohol (Ethanol)	64-17-5	90%	2.9	5.1	0	<1	4.1	0	26	130	4
Ethyl alcohol (Ethanol)	64-17-5	70%	4.1	8.5	0	5.8	15	1	27	>480	6
Formaldehyde	50-00-0	40%	7	210	4	11	>480	6	>480	>480	6
Glutaraldehyde	111-30-8	2.5%	94	>480	6	>480	>480	6	>480	>480	6
Hibi Liquid Hand Rub (0.5% Chlorhexidine digluconate)	18472-51-0	0.5%	>480	>480	6	>480	>480	6	>480	>480	6
HibiStat (70% IPA, 0.5% Chlorhexidine digluconate)	18472-51-0	4%	>480	>480	6	>480	>480	6	>480	>480	6
Hibiscrub (4% Chlorhexidine digluconate)	18472-51-0	4%	>480	>480	6	>480	>480	6	>480	>480	6
HibiClens (4% Chlorhexidine digluconate)	18472-51-0	4%	>480	>480	6	>480	>480	6	>480	>480	6
Hydrogen peroxide	7722-84-1	30%	>480	>480	6	>480	>480	6	>480	>480	6
Iodine tincture	7553-56-2	7%	not tested	not tested	not tested	>480	>480	6	not tested	not tested	not tested
Isopropyl alcohol (Isopropanol)	67-63-0	100%	3.1	6.1	0	4.5	7.4	0	19	36	2
Isopropyl alcohol (Isopropanol)	67-63-0	70%	5.1	8.3	0	6.6	11	1	32	110	3
Methyl alcohol (Methanol)	67-56-1	100%	1.2	2.1	0	1.5	2.7	0	6.1	10	0
Methyl methacrylate	80-62-6	100%	<1	<1	0	<1	<1	0	1.9	2.3	0
Methyl methacrylate in bone cement	80-62-6	100%	1	1.5	0	0.8	1.1	0	4.9	6.2	0
Mineral oil	8042-47-5	100%	36	81	3	>480	>480	6	>480	>480	6
Peracetic acid	79-21-0	5%	<1	<1	0	10	10	0	30	31	2
Phenol 7%	108-95-2	7%	1.1	10	0	10	41	2	32	69	3
Phenol 70%	108-95-2	70%	1.2	11	1	5	34	2	37	82	3
Sodium hypochlorite	7681-52-9	13%	>480	>480	6	>480	>480	6	>480	>480	6
Videne alcoholic tincture (Povidone iodine)	25655-41-8	10%	>480	>480	6	>480	>480	6	>480	>480	6
Videne antiseptic solution (Povidone iodine)	25655-41-8	10%	>480	>480	6	>480	>480	6	>480	>480	6
Videne surgical scrub (Povidone iodine)	25655-41-8	7.5%	>480	>480	6	>480	>480	6	>480	>480	6

The performance level for each glove is classified based on their breakthrough time (EN 16523-1) in accordance with EN 374-1.

Performance Level in min.
Performance Level

>480	>240	121-240	61-120	31-60	11-30	≤10	not tested
6	5	4	3	2	1	0	

Review Material Safety Datasheet for all chemicals to be used to determine the required protection level.

Recommendations should be made to users that adoption of a suitable gloving choice should be based on the type of exposure to the chemical that the glove will experience during wear.

All times are in minutes

Find out more at www.molnlycke.com

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