



Permeation of selected chemicals

Product:	Peha-soft nitrile white
Type of product:	qualified as examination glove and as personal protection equipment category III, latex-free, powder-free, non-sterile
Date:	03.05.2017
Ref.:	9422052 / 9422062 / 9422072 / 9422082 / 9422092 / 9422162 / 9422172 / 9422182

Based on permeation of selected chemicals (executed by an external accredited test laboratory using test procedures defined in EN 16523-1 supersedes EN 374 part 3, both are still valid) following typical results for **Peha-soft nitrile white** can be provided:

Chemical "IUPAC"	CAS Number	Performance level / protection index	Break through time [min]*
Acetic Acid 10%	64-19-7	5	> 240 minutes
Acetone	67-64-1	0	< 1 minute
Ammoniumhydroxide 25 %	1336-21-6	0	6 minutes
Benzalkonium chloride	63449-41-2	6	> 480 minutes
Chlorhexidine digluconate 4 %	18472-51-0	6	> 480 minutes
Chloroform (Trichlormethan) 100 %	67-66-3	0	< 1 minute
Cyclohexan 100 %	110-82-7	1	> 10 minutes
Cyclohexanol 100 %	108-93-0	1	> 10 minutes
Cyclohexanon 100 %	108-94-1	0	< 1 minute
Diethylamin 100 %	109-89-7	0	< 1 minute
Ethanol 35 %	64-17-5	0	4 minutes
Ethanol 70 %	64-17-5	0	< 1 minute
Ethanol 80 %	64-17-5	0	< 1 minute
Ethidumbromide saturated	1239-45-8	6	> 480 minutes
Formaldehyde 10 %	50-00-0	6	> 480 minutes
Formalin 37 %	50-00-0	4	> 120 minutes
Glutaraldehyde 10 %	111-30-8	6	> 480 minutes
Hydrochloric Acid 25 %	7647-01-0	5	> 240 minutes
Hydrogen Peroxide 3 %	7722-84-1	6	> 480 minutes
Hydrogen Peroxide 30 %	7722-84-1	2	> 30 minutes
Isopropanol	67-63-0	0	< 1 minute
n-Heptane	142-82-5	1	> 10 minutes
n-Hexane	110-54-3	0	3 minutes

* Hartmann wants to inform that the duration of protection under actual "in-use"-circumstances may vary considerable from these performance levels as the values for the permeation test results are based on tests performed in laboratory under fixed conditions. Before use, please check gloves for physical damage. Recommendation on chemical resistance is not part of the specification.

** No testings' against EN16523-1 yet, therefore EN 374 part 3 is still valid



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Povidone iodine 10 %	25655-41-8	6	> 480 minutes
Sodium Hydroxide 40 %	1310-73-2	6	> 480 minutes
Sulphuric Acid 50 %	7664-93-9	6	> 480 minutes
1,2-Dichlorethane 100 %	107-06-2	0	< 1 minute

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Chemotherapy drugs	Performance level / protection index	Break through time [min.]*
Carmustine (BCNU)	6	> 480 minutes
Cisplatin	6	> 480 minutes
Cyclophosphamide	6	> 480 minutes
Dacarbazine	6	> 480 minutes
Doxorubicin Hydrochloride	6	> 480 minutes
Ellence	6	> 480 minutes
Etoposide (Toposar)	6	> 480 minutes
Fluorouracil	6	> 480 minutes
Ifosfamide	6	> 480 minutes
Methotrexate	6	> 480 minutes
Mitomycin C	6	> 480 minutes
Mitoxantrone	6	> 480 minutes
Paclitaxel (Taxol)	6	> 480 minutes
Thiotepa	6	> 480 minutes
Vincristine Sulfate	6	> 480 minutes

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BODE disinfectants and detergents	Performance level / protection index	Break through time [min]*
Baccalin 100 %	6	> 480 minutes
Bacillol 30 Foam	0	< 1 minute
Bacillol AF 100 %	0	< 1 minute
Bomix plus 2 % (for the detection of ionic species)	6	> 480 minutes
Bomix plus 2 % (for the detection of organic species)	6	> 480 minutes
Bomix plus 100 % (for the detection of ionic species)	6	> 480 minutes
Bomix plus 100 % (for the detection of organic species)	1	> 10 minutes

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Dismofix G 1 %	3	> 60 minutes
Dismofix G 100 %	0	1 minute
Dismozon plus 0,4 %	6	> 480 minutes
Dismozon plus 3,6 %	6	> 480 minutes
Dismozon pur 4 %	6	> 480 minutes
Dismozon pur 100 %	6	> 480 minutes
Kohrsolin extra 0,5 % (testing for formaldehyde)	6	> 480 minutes
Kohrsolin extra 0,5 % (for detection of organic species)	6	> 480 minutes
Kohrsolin extra 100 % (testing for formaldehyde)	3	> 60 minutes
Kohrsolin extra 100 % (for detection of organic species)	1	11 minutes
Kohrsolin FF 100 % (testing for formaldehyde)	6	> 480 minutes
Kohrsolin FF 100 % (For detection of glutaraldehyde)	6	> 480 minutes
Korsolex basic 5 % (testing for formaldehyde)	6	> 480 minutes
Korsolex basic 100 % (testing for formaldehyde)	6	> 480 minutes
Korsolex basic 100 % (Detection of glutaraldehyde)	6	> 480 minutes
Korsolex extra 4 % (detection of formaldehyde)	6	> 480 minutes
Korsolex extra 4 % (for the detection of organic species)	6	> 480 minutes
Korsolex extra 100 % (detection of formaldehyde)	4	> 120 minutes
Korsolex extra 100 % (for the detection of organic species)	0	10 minutes
Korsolex med AF 100 %	6	> 480 minutes
Korsolex plus 3 % (detection of ionic species)	6	> 480 minutes
Korsolex plus 3 % (detection of organic species)	6	> 480 minutes
Korsolex plus 100 % (detection of ionic species)	6	> 480 minutes
Korsolex plus 100 % (detection of organic species)	0	4 minutes
Mikrobac food 100 %	6	> 480 minutes
Mikrobac forte 100 %	6	> 480 minutes
Mikrobac tissues	6	> 480 minutes

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Please consider that the usage of products which are qualified as Personal Protective Equipment (PPE) is mandatory for certain fields of work for proper protection of the user.

Permeation performance level	Break through time [min]*
1	> 10 minutes
2	> 30 minutes
3	> 60 minutes
4	> 120 minutes
5	> 240 minutes
6	> 480 minutes

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