

# inform<sup>®</sup>

## Recommendation on Chemical Resistance – Cytostatics

Sempered gloves for single use have been tested in accordance with ASTM F 739 "Standard Test Method for Resistance of Protective Clothing Materials to Permeation by Liquids or Gases under Conditions of Continuous Contact", EN 374-3 „Protective gloves against chemicals and micro-organisms – Determination of resistance to permeation by chemicals“ or ASTM D 6978 "Assessment of Resistance of Medical Gloves to Permeation by Chemotherapy Drugs "by independent accredited test institutes.

<b>Classification:</b>
Not suitable
Suitable if changed before permeation breakthrough
Suitable for longer operations*

<b>Permeation Rate:</b>
The tests were performed according to ASTM D 6978

Caution: Damaged or swelling gloves shall be changed immediately!

\*For reason of precaution it is recommended to change gloves after 2 hours!

### TEST RESULTS by:

▪ ARDL Akron Rubber Development Laboratory, Ohio, USA

▪ ProQares, Rijswijk, NETHERLANDS

Breakthrough Detection Time (BDT) = Minutes (min)\*

Chemotherapy Drug	mg/ml	Semperguard® Xtension (300)	Semperguard® Comfort	Semperguard® Xtra Lite	Semperguard® Xenon	Semperguard® sapphire blue	Semperguard® Green
		NOF-065RB	NOF-047RB	NOF-035VB	NOF-035WH	NOF-030VB	NCF-035GR
		Nitrile – NBR	Nitrile - NBR	Nitrile - NBR	Nitrile – NBR	Nitrile – NBR	Nitrile - NBR
		BDT	BDT	BDT	BDT	BDT	BDT
5-Fluorouracil	50,0	> 240	> 240	> 240	> 240	> 240	> 240
Carmustine (BiCNU)	3,3	19	67	16	30	15	15
Cisplatin	1,0	> 240	> 240	> 240	> 240	n/a	> 240
Cyclophosphamide (Cytosan)	20,0	87	> 240	> 240	> 240	165	> 240
Dacarbazine (DTIC)	10,0	> 240	> 240	> 240	> 240	n/a	> 240
Doxorubicin, Hydrochloride	2,0	> 240	> 240	> 240	> 240	> 240	> 240
Epirubicin	2,0	> 240	> 240	> 240	> 240	n/a	n/a
Etoposide	20,0	> 240	> 240	18	203	122	> 240
Melphalan (Alkeran)	5,0	n/a	<10	<10	n/a	n/a	n/a
Methotrexate (Amethopterin Hydrate)	25,0	> 240	> 240	> 240	> 240	n/a	> 240
Mitomycin C	0,5	n/a	> 240	> 240	n/a	n/a	> 240
Mitoxantrone	2,0	n/a	> 240	> 240	n/a	n/a	> 240
Paclitaxel (Taxol)	6,0	> 240	> 240	> 240	> 240	17	> 240
Thio-Tepa	10,0	30	47	64	n/a	46	11
Vincristine	1,0	> 240	> 240	> 240	> 240	n/a	> 240

\*Concentration: according instruction leaflet

n.a. .... not available

**IMPORTANT NOTE:** The latest chemical resistance list can be found at [www.sempermed.com](http://www.sempermed.com). Please note that the product characteristics are directly dependent on the conditions of use and on the purity of the chemical substances concerned. The chemical resistance has been assessed under laboratory conditions and cannot reflect all actual conditions. When working with materials that are harmful to the skin, please always inspect the glove for any holes or tears prior to use. In principle, tests and certificates may only be regarded as general indications and do not exempt the user from the responsibility of making sure that the glove affords the protection requirements for the intended purpose prior to use. The chemical resistance recommendations do not form part of the specifications.

**CAUTION:** Failure to observe this information, in particular with regard to (chemical) resistance, frequency of use and tolerability of the gloves, can result in personal injury and/or material damage. Semperit does not accept any liability for incorrect use of the gloves. In case of doubt, obtain expert advice before use.

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