

## Recommendation on Chemical Resistance – Cytostatics

Sempermed gloves for single use have been tested in accordance with ASTM D6978 "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 surgeries*

<b>Permeation Rate:</b>
The tests were performed according to ASTM D6978

**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	Sempermed Supreme Green	Sempermed Supreme Plus	Sempermed Supreme	Sempermed Syntegra Green	Sempermed Syntegra IR	Sempermed Syntegra UV
		LFM-091GR	LFG-110NA	LFM-110NA	PFM-116GR	PFM-116SC	PUM-118WH
		Latex - NR BDT	Latex-NR BDT	Latex - NR BDT	Polyisopren BDT	Polyisopren BDT	Polyisopren BDT
5-Fluorouracil	50,0	> 240	> 240	> 240	> 240	> 240	n/a
Bleomycin sulfate	15,0	> 240	> 240	> 240	> 240	> 240	n/a
Carboplatin	10,0	> 240	> 240	> 240	> 240	> 240	n/a
Carmustine (BiCNU)	3,3	13	13	12	15	16	16
Cisplatin	1,0	> 240	> 240	> 240	> 240	> 240	> 240
Cyclophosphamide (Cytoxan)	20,0	> 240	> 240	> 240	> 240	> 240	> 240
Cytarabine	100,0	> 240	> 240	> 240	> 240	> 240	n/a
Dacarbazine (DTIC)	10,0	> 240	> 240	> 240	> 240	> 240	> 240
Daunorubicin HCl	5,0	> 240	> 240	> 240	> 240	> 240	n/a
Doxorubicin HCl	2,0	> 240	> 240	> 240	> 240	> 240	> 240
Docetaxel	10,0	> 240	> 240	> 240	> 240	> 240	n/a
Epirubicin	2,0	n/a	n/a	n/a	n/a	n/a	> 240
Etoposide	20,0	> 240	> 240	> 240	> 240	> 240	> 240
Gemcitabine HCl	38,0	> 240	> 240	> 240	> 240	> 240	n/a
Idarubicin HCl	1,0	> 240	> 240	> 240	> 240	> 240	n/a
Irinotecan HCl	20,0	> 240	> 240	> 240	> 240	> 240	n/a
Ifosfamid	50,0	> 240	126	> 240	231	> 240	n/a
Methotrexate (Amethopterine Hydrate)	25,0	> 240	> 240	> 240	> 240	> 240	> 240
Mitomycin C	0,5	> 240	> 240	> 240	> 240	> 240	> 240
Mitoxantrone HCl	2,0	> 240	> 240	> 240	> 240	> 240	> 240
Oxaliplatin	5,0	> 240	> 240	> 240	> 240	> 240	> 240
Paclitaxel (Taxol)	6,0	> 240	> 240	> 240	> 240	> 240	> 240
Thio-Tepa	10,0	11	23	13	24	26	27

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		Latex - NR	Latex-NR	Latex - NR	Polyisopren	Polyisopren	Polyisopren
		BDT	BDT	BDT	BDT	BDT	BDT
Topotecan HCl	1,0	> 240	> 240	> 240	> 240	> 240	n/a
Vinblastin sulfate	1,0	> 240	> 240	> 240	> 240	> 240	n/a
Vinorelbine tartrate	0,1	> 240	> 240	> 240	> 240	> 240	n/a
Vincristine sulfate	1,0	> 240	> 240	> 240	> 240	> 240	> 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.

This document was issued electronically and is therefore valid without signature and has a validity of up to one year.

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