



Cytostatics Resistance

Medical Gloves | Vasco[®], Manufix[®]

B. Braun disposable medical gloves have been tested in accordance with **ASTM F 739** and/or **ASTM D 6978** "Standard Test Method for Resistance of Protective Clothing Materials to Permeation by Liquids or Gases Under Conditions of Continuous Contact" or **EN 374-3** "Protective gloves against chemicals and microorganisms, determination of resistance to permeation by chemicals" by independent accredited institutions.

Classification	Permeation rate	
Not suitable	> 1.0 µg/cm ² /min	Minimum detection rate according to EN 374-3 ¹⁾
Suitable if changed before permeation breakthrough	< 0.1 µg/cm ² /min	Minimum detection rate according to ASTM F 739 ²⁾
Suitable for prolonged use	< 0.01 µg/cm ² /min	Minimum detection rate according to ASTM D 6978 ³⁾

Damaged or swelling gloves must be replaced immediately. To minimise any risk, it is recommended that double gloves should be worn when handling cytostatics. For safety reasons, disposable gloves should be changed after 2 hours.

Measured time to perforation (MTP) = minutes (min)

Cytostatics	Surgical Gloves (sterile)				Examination Gloves	
	Vasco [®] OP – natural rubber latex		Vasco [®] OP free – Polyisoprene		Manufix [®] free – Nitrile NBR	
5-Fluorouracil	35 ²⁾		NT	NT	> 240 ³⁾	
Carmustine	15 ²⁾		> 240 ¹⁾		> 240 ¹⁾	
Cisplatin	> 240 ²⁾		> 240 ¹⁾		> 240 ^{1) 3)}	
Cyclophosphamide	> 240 ²⁾		NT	NT	> 240 ³⁾	
Dacarbazine	> 240 ²⁾		NT	NT	> 240 ³⁾	
Doxorubicin	> 240 ²⁾		NT	NT	> 240 ³⁾	
Epirubicin	NT	NT	> 240 ¹⁾		> 240 ¹⁾	
Etoposide	15 ²⁾		> 240 ¹⁾		> 240 ^{1) 3)}	
Methotrexate	> 240 ²⁾		NT	NT	> 240 ³⁾	
Mitoxantrone	> 240 ²⁾		> 240 ¹⁾		> 240 ¹⁾	
Paclitaxel	> 240 ²⁾		> 240 ¹⁾		> 240 ^{1) 3)}	
Thiotepa	40 ²⁾		NT	NT	NT	NT
Vincristine	NT	NT	NT	NT	> 240 ³⁾	

NT: not tested Test temperature = 23.5°C / concentration – preparation according to manufacturer's information

Note: All B. Braun gloves comply with EN 455 1-3 for medical gloves – the intended use is medical use (not personal protection acc. to EN 374). In general, it is recommended for medical gloves to change gloves after 1-2 hours of working. The product properties are directly dependant upon the conditions of use and purity of the chemicals. When working with substances harmful to the skin, the gloves should be checked in advance for any holes or tears. Tests and certificates can only be regarded as general information and cannot reflect all actual conditions. They do not release users from their responsibility to ensure before use that the gloves meet their current protection requirements. (All data refer to typical single values and may be subject to alterations.)