

What gloves can I use against chemotherapy drugs?

The number of patients receiving chemotherapy drugs notably increased during the last years. Even if those drugs are meant to fight cancerous cells, they also could induce cancer themselves, since the mechanisms that kill cancerous cells are also toxic to healthy cells. Therefore, special precautions must be taken while manipulating chemotherapy drugs.

Ansell tested the following chemotherapy drugs against some of their gloves. Please note that the permeation tests were performed using the ASTM D 6978 standard, which is a specific standard that has been created to measure the permeation resistance of gloves against chemotherapy drugs. This standard defines the permeation time as being reached when a concentration of 0.01 µg/min/cm² is detected.

Please note that the test results present here above are only valid for the chemotherapy drugs that were tested and cannot be representative of the behaviour of other chemotherapy drugs.

Recommendations made in this note are based on extrapolations from laboratory test results and information regarding the composition of chemicals and may not adequately represent specific conditions of end use. Synergistic effects of mixing chemicals have not been accounted for. For these reasons, and

because Ansell has no detailed knowledge of or control over the conditions of end use, any recommendation

Chemotherapy drug	Supreno EC Microflex® 93-853 SEC-375	NeoPro NPG-888 NPG-INT	NeoPro EC NEC-288
5-Fluorouracil (Adrucil)	>240 min	Up to 120 min	Up to 240 min
Bleomycin Sulfate		Up to 120 min	
Carboplatin (Paraplatin)		Up to 120 min	
Carmustine	15 min	55 min	97 min
Cisplatin	>240 min	Up to 120 min	Up to 240 min
Cyclophosphamide (Cytoxan)	>240 min	Up to 120 min	Up to 240 min
Cytarabine HCl		Up to 120 min	
Dacarbazine	>240 min		Up to 240 min
Daunorubicin HCl (Cerubidine)		Up to 120 min	
Doxorubicin Hydrochloride (Adriamycin)	>240 min	Up to 120 min	Up to 240 min
Etoposide	33 min	Up to 120 min	Up to 240 min
Idarubicin HCl		Up to 120 min	
Ifosfamide (Ifex)	>240 min	Up to 120 min	
Melphalan (Alkeran)		Up to 120 min	
Methotrexate	>240 min		Up to 240 min
Mitomycin C	>240 min	Up to 120 min	
Mitoxantrone	>240 min	Up to 120 min	
Paclitaxel (Taxol)	>240 min	Up to 120 min	Up to 240 min
Thio-TEPA	>240 min	Up to 120 min	Up to 240 min
Vincristine Sulfate	>240 min		Up to 240 min

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