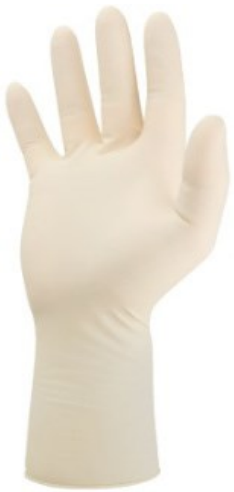
TECHNICAL **DATA SHEET**

Sterile Nitrile Gloves – Chemotherapy

DESCRIPTION

Nitrile gloves suitable for use in chemotherapy and cytotoxic applications, with a combination of chemical resistance and high material purity. Free from latex, sulphur and accelerators they are a solution that guards the user against the main causes of contact dermatitis and natural rubber latex allergies. It is well known that large numbers of clinical staff suffer from an adverse reaction to medical gloves. This is caused by compounds in the glove which react with the skin. Because clinical staff repeatedly wash their hands and/or apply alcohol gel, the natural oils in the skin are removed, leading to dry, cracked and sore hands.



TECHNICAL SPECIFICATION

Colour	Neutral
Quantity	Pack of 40 Case of 10 x 40
Size	S M L XL
Material	Nitrile
Test Standards	PPE Category III EN 420:2003+A1:2009 EN 374-1:2016 EN 374-5:2016 EN 455-1:2000 ASTM D6978-05 AQL 0.65

FEATURES

- Latex free
- High chemotherapy drug resistance. Tested to ASTM D6978-05
- High chemical resistance - protection against a wide range of hospital and laboratory chemicals
- High puncture resistance– Certified to ASTM F1432
- Lightweight construction - for high sensitivity
- Suitable for ISO 4-9 cleanrooms
- Very high durability - for tear and puncture resistance
- Powder free - for hygiene and convenience

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TECHNICAL DATA

Colour: White

Material: Nitrile

Sizes: Medium (8)
Large (9)
XL (10)

Glove Length: 33cm (approx.)

Thickness: Palm = 0.14mm
Cuff = 0.09mm
Fingertips: = 0.16mm

Packaging: 1 pair/PE bag
20 PE bags/polybag
10 x polybags/carton

Certifications

EN ISO 374-1:2016 Type C

EN ISO 420:2003

EN ISO 374-5:2016 VIRUS

ASTM D6978-05

AQL 0.65

CE CAT III

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Test Results

Physical properties

	Before Ageing		After Ageing	
Standard	**Tensile Strength**	**Elongation**	**Tensile Strength**	**Elongation**
ASTM D3577	> 17 MPa	>650%	> 12 MPa	>490%
EN 455-2	Force at Break: min. 9 Newtons		Force at Break: min. 6 Newtons	

Resistance to Penetration (EN 374-2:2014)

Performance Level	Acceptable Quality Limit (AQL)	Inspection Level	02-8-N Result
3	< 0.65	G1	AQL = 0.65
2	< 1.50	G1	
1	< 4.00	S4	

Performance Results For Micro-Organism Risk (EN 374-5:2016)

Size	Medium	Large	XL
Total Length (±10mm)	330mm	330mm	330mm
Palm Width (±3mm)	91mm	106mm	118mm
Weight Per Piece	8.6g	9.8g	11.0g

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Resistance to Permeation by Chemicals (EN 371-1) and Resistance to Degradation by Chemicals (EN 374-4)

Breakthrough Time (mins)	Performance Level For Permission
>10	1
>30	2
>60	3
>120	4
>240	5
>480	6

Protective gloves against chemicals are classified in three types, based on their permeation performance against the test chemicals listed in the table below:

Type A: Must satisfy at least Level 2 for a minimum of 6 test chemicals

Type B: Must satisfy at least Level 2 for a minimum of 3 test chemicals

Type C: Must satisfy at least Level 1 for a minimum of 1 test chemical

Chemical	Performance Level*	Breakthrough Time (mins)	Mean Degradation/%**
Isopropanol 70%	3	64 mins	57.2
Ethanol	1	22 mins	-44.5
Sodium hydroxide	6	>480 mins	12.9
Hydrochloric Acid	4	202 mins	46.6
Sulphuric Acid	6	>480 mins	34.4
Hydrogen Peroxide	5	361—480 mins	-36.5

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Permeation Tests with Cytostatic Drugs According to ASTM D6978-5

Test Chemotherapy Drug	Average Breakthrough Time (mins)
Carboplatin	>240
Carmustine	60
Cisplatin	>240
Cyclophosphamide (Cytoxan)	>240
Dacarbazine (DTIC)	>240
Daxorubicin Hydroclorise	>240
Etoposide (Toposar)	>240
5-Fluorouracil	>240
Ifosfamide	>240
Methotrexate	>240
Mitomycin	>240
Mitoxantrone	>240
Paclitaxel (Taxol)	>240
ThioTEPA	160

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