

Ultrafree™ Max Surgical Gloves

Glove Products

Description/Features

- Maximum strength and protection
- Sterile, powder-free natural rubber latex surgical glove
- Dark brown color reduces glare
- Lubricated to ease donning and double gloving
- Custom mold design – smooth finish with strong beaded cuff

Length/Thickness

Average length (size medium glove) is measured from the tip of the middle finger to the cuff.

Average Length (in./mm)	Cuff Thickness (mil/mm)	Palm Thickness (mil/mm)	Finger Thickness (mil/mm)
11.6/296	10.2/0.26	11.3/0.29	12.0/0.31

Barrier Protection

With respect to gloves, Acceptable Quality Level (AQL) for freedom from holes refers to confidence in barrier protection. Gloves with a lower AQL will have fewer barrier defects. Cardinal Health internal requirements are significantly more stringent than FDA or ASTM requirements.

FDA Limit	ASTM Limit	Cardinal Health Limit
2.5	1.5	1.09

Physical Properties

Meet, even exceed, ASTM D3577 for Physical Properties (Standard Specification for Rubber Surgical Gloves).

	ASTM Limit	Cardinal Health Actual
Tensile Strength	≥3481 psi	3916 psi
Tensile Stress	≤798 psi	517 psi
Ultimate Elongation	≥750%	795%

Proteins and Allergens

These natural rubber latex gloves contain 50 micrograms or less of total water-extractable protein per gram. Total protein content is monitored by using the modified Lowry Test Method ASTM D5712. **Caution: Safe use of this glove by or on latex-sensitized individuals has not been established.**

Allergens: The RAST is an assay for detecting and quantifying antigenic proteins from extracts of products that contain natural rubber latex. **RAST Results (µg/gm) = 4.**

Powder Level

Cardinal Health's Ultrafree™ Max surgical gloves meet the requirement for a powder-free glove per ASTM D3577.



Cat. Nos. 2D7290I–2D7297I



Bacteriophage Penetration

These gloves “passed” ASTM F1671, “Standard Test Method for Resistance of Materials Used in Protective Clothing to Penetration by Bloodborne Pathogens Using Phi-x174 Bacteriophage as a Test System.” This method assesses the effectiveness of materials used in protective clothing for protecting the wearer against contact with bloodborne pathogens using a surrogate microbe suspended in simulated body fluid under conditions of continuous contact. The outcome is either “pass” or “fail.” **Cardinal Health tests a statistically significant sample size of 32 gloves instead of the sample size of three called for in the ASTM method.**

Chemotherapy Drug Permeation

These gloves have been tested for use with chemotherapy drugs. Gloves used for protection from chemotherapy drug exposure must be selected specifically for the type of drugs being used. Gloves have been tested per ASTM F739 for resistance to the following chemotherapy drugs. The results represent average normalized breakthrough time in minutes.

Drug Description	Result
Carmustine (BCNU®) (3.3mg/mL)	106
cis-Diamine-dichloroplatinum (Cisplatin) (1.0mg/mL)	>480
Cyclophosphamide (CYTOXAN®) (20.0mg/mL)	>480
Dacarbazine (DTIC-Dome®) (10.0mg/mL)	>480
Doxorubicin Hydrochloride (Adriamycin®) (20.0mg/mL)	>480
Etoposide (VePesid®) (1.0mg/mL)	>480
Ifosfamide (Ifex®) (1.0mg/mL)	>480
Mitoxantrone (Novantrone®) (1.0mg/mL)	>480
Vincristine (Oncovin®) (1.0mg/mL)	>480
5-Fluorocil (Efudex®) (50.0mg/mL)	>480

Note: Review the Material and Safety Data Sheets for the drugs being used to determine the required level of protection.

Chemical Resistance

These gloves have been tested per ASTM F739 for resistance to the following chemicals. The results represent average normalized breakthrough time in minutes.

Drug Description	Result
Acetonitrile	30
Acrylamide, 50%	>480
Enzy-Clean® Instrument Presoak Cardinal Health Cat. No. 25132	>480
Germicidal Cleaning Solution – Organic Chorides*	>335
Glutaraldehyde	>480
Instra-Clean™ Single Enzyme Cleaner Cardinal Health Cat. No. 25134-001	>480
Sodium Hydroxide, 50%	>480
Sodium Hypochlorite, 10% to 13%	>480
Sulfuric Acid, 98%	50

Ordering Information

Packaging: Pairs are packed in convenient Cardinal Health pack. 40 pairs of gloves per box, 5 boxes (200 pairs) per case.

Cat. No.	Size	Cat. No.	Size
2D7290I	5½	2D7294I	7½
2D7291I	6	2D7295I	8
2D7292I	6½	2D7296I	8½
2D7293I	7	2D7297I	9

* The carrier for this cleaner is isopropanol, which has a normalized breakthrough time of less than 6 minutes.

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 Paper contains a minimum of 10% post-consumer fiber.



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