

Esteem[®] Blue with Neu-Thera[®]

Hand Care Solutions

Sterile Polyisoprene Powder-Free Surgical Gloves with Emollient Coating

Esteem[®] Blue surgical gloves with Neu-Thera[®] emollient coating provide a single solution that protects hands, minimizes latex allergy concerns, promotes skin wellness and supports double-gloving initiatives.

- The gloves are made from a unique, synthetic polyisoprene formulation, which is structurally identical to natural rubber latex without the proteins. This provides healthcare workers an alternative glove that performs like latex in terms of comfort, fit and feel.
- The Neu-Thera[®] emollient coating, which is applied to the interior of the glove, provides a convenient and effective agent that aids in skin wellness and encourages compliance with hand washing and surgical hand antisepsis guidelines.
- The smooth-as-silk finish of the Esteem[®] Blue surgical gloves allows for easy, comfortable donning when worn stand alone or as the underglove in a double-gloving environment.
- It is blue in color to differentiate it from other Esteem[®] surgical glove products as well as assist in identifying it as the first layer of protection when double-gloving.

Double Gloving – essential protection against needle sticks and sharps injuries

According to Cochrane Database of Systematic Reviews¹, double gloving represents an increased barrier protection for the wearer compared to single gloving. Two layers of surgical gloves can reduce the number of breaks to the innermost glove that might allow cross-infection between the surgical team and patient. In addition, wearing one pair of gloves on top of a pair of colored gloves facilitates the wearer's rapid recognition of perforation to the outer glove.

¹Tanner J, Parkinson H. Double gloving to reduce surgical cross-infection. Cochrane Database of Systematic Reviews 2006, Issue 2. Art. No.: CD003087. DOI: 10.1002/14651858.CD003087.pub2. <http://www.cochrane.org/reviews/en/ab003087.html>



Physical Dimensions and Properties

Meet and exceed ASTM specification for physical dimensions and properties per ASTM D3577, "Standard Specification for Rubber Surgical Gloves".

Dimensions	ASTM requirement (minimum)	Esteem® Blue specifications (nominal)
Length	10.43 in / 265mm	12 in / 305mm
Thickness		
Finger	3.94 mils / 0.10mm	7.9 mils / 0.2mm
Palm	3.94 mils / 0.10mm	≥5.5 mils / 0.14mm
Cuff	3.94 mils / 0.10mm	≥5.9 mils / 0.15mm
Properties	ASTM requirement (before aging)	Esteem® Blue results
Tensile Strength	≥17 MPa	19.7 MPa
Stress @ 500% elongation (modulus)	≤7.0 MPa	1.8 MPa
Ultimate Elongation (elasticity)	≥ 650%	1015%

Barrier Protection

All gloves must meet a certain Acceptable Quality Level (AQL) as established by the Food and Drug Administration (FDA). This refers to their freedom from holes and their subsequent level of barrier protection. Gloves with a lower actual AQL will have fewer barrier defects. The internal requirements of Cardinal Health (AQL=1.0) are more stringent than FDA and ASTM requirements. Gloves are statistically sampled and tested per ASTM International Standard Method D5151, "Standard Test Method for Detection of Holes in Medical Gloves," the 1000mL water-leak test.

	FDA (2008)	ASTM (D3577)	Cardinal Health
AQL Limit	1.5	1.5	1.0

Bacteriophage Penetration

Tested and passed ASTM F1671, "Standard Test Method for Resistance of Materials Used in Protective Clothing to Penetration by Blood-Borne Pathogens Using Phi-X174 Bacteriophage as a Test System." This method has been specifically defined for modeling the viral penetration of Hepatitis (B and C) and Human Immunodeficiency Viruses transmitted in blood and other potentially infectious body fluids. The outcome is either "pass" or "fail." Cardinal Health tests a statistically significant sample size of 32 gloves instead of the 3 called for in the ASTM method.

Puncture Resistance

Tested and passed AS/NZS 4179, "Single-use sterile surgical rubber gloves – Specification." The force required to puncture a film is reported in Newton (N). The standard recommends a puncture resistance of 5N or greater. Average test result = 7.8N at cuff.

Ordering Information

Cat. No.	Size	Cat. No.	Size
2D73EB55	5½	2D73EB75	7½
2D73EB60	6	2D73EB80	8
2D73EB65	6½	2D73EB85	8½
2D73EB70	7	2D73EB90	9

50 pairs per box; 4 boxes per case

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