

Cardinal Health™

Protexis[™] Surgical Gloves





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cardinalhealth.com/protexis

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Protecting the hands that heal.



You give everything to your patients, it's who you are. Just as it's in your instinct to provide care, it's ours to ensure your safety every step of the way. To protect you and your hands that heal.

That's why we build quality, clinical best practice, and trust directly into every Protexis™ glove, to provide you with the **Perfect Fit** for every type of procedure.





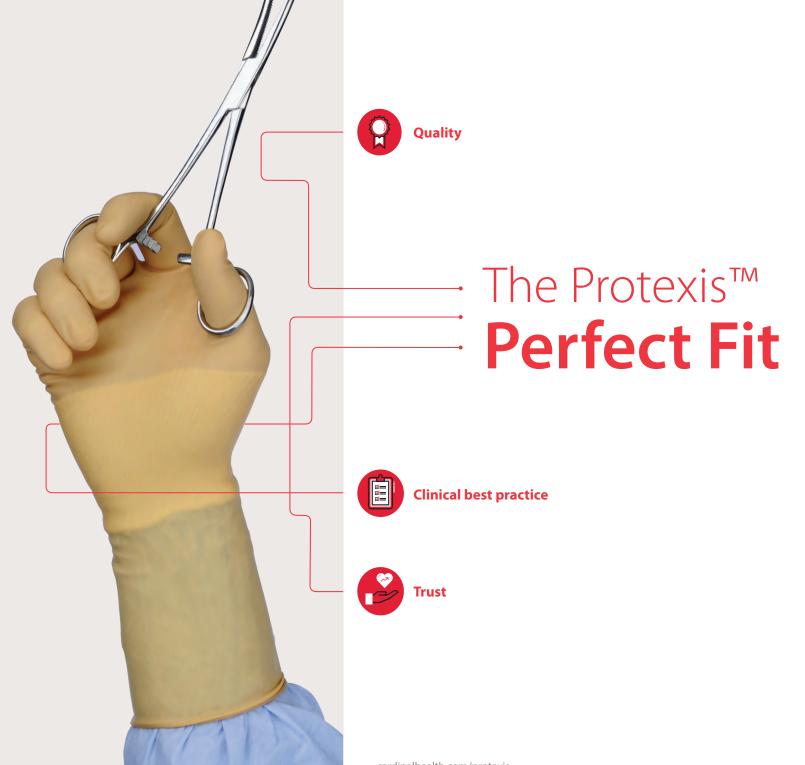


Quality

Clinical best practice

Trust

Are you ready to find your Perfect Fit?





The Protexis™ **Perfect Fit**



Quality



Clinical best practice



Trust

Quality

You shouldn't have to sacrifice quality for a comfortable fit and feel. That's why for more than five decades we've been committed to crafting proprietary molds and formulations that mimic the actual anatomy and physiology of your hands and owning the entire manufacturing and supply chain process to ensure the highest quality standards are adhered to at every step.



"The gloves fit well and are comfortable."

RN, Top 3 US News & World Report Hospital²



Surgical gloves in the US¹



quality variables monitored



AQL of 0.65exceeding industry standards



ISO, EN, ASTM and PPE standards met globally

1. GHX Units, All Channels, 2017.

2. Techvalidate Research Study, December 2017.



The Protexis™ Perfect Fit



Quality



Clinical best practice



Trust

Clinical best practice

The Perfect Fit is a commitment to provide your team with the most clinically recommended product options that meet their unique needs, as well as the ongoing education and tools to maximize their safety in the OR.



"Education and consistency during our conversion of all gloves with Cardinal Health helped to garner staff and physician buy-in."

Executive Director, 70+ facility health system¹





CE courses, podcasts, webinars and videos

Clinically-authored white papers and journals

Posters, fact sheets and interactive tools

Sampling, sizing and product evaluation support



Latex safety

Double-gloving

Dermatitis prevention

Hand wellness



1. Techvalidate Research Study, December 2017.

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The Protexis™ Perfect Fit



Quality



Clinical best practice



Trust



Trust

The Perfect Fit is a commitment to providing support throughout the conversion process to reduce the burden of change for your entire team. As the surgical gloves supplier to 90% of the organizations recognized in the *U.S. News and World Report* Best Hospitals Honor Roll², we have developed best-in-class conversion processes to help you improve safety and efficiency, while reducing inventory and costs through standardization.

In fact, **79%** of our customers actually saved money when they went latex-free with Protexis™ Surgical Gloves.³

- 1. GHX Units, All Channels, 2017.
- 2. U.S News & World Report, data valid as of September 2017. https://www.usnews.com/info/blogs/press-room/articles/2017-08-08/us-news-announces-2017-18-best-hospitals
- 3. Techvalidate Research Study, December 2017.

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"The Cardinal Health team made the conversion seamless."

VP of Perioperative Services, Large Academic Teaching Institution¹



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Non-latex Polyisoprene

- 9 Protexis[™] Pl
- 10 Protexis™ PI with Neu-Thera®
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Non-latex Neoprene

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Latex

- 19 Protexis[™] Latex
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- 24 Protexis™ Latex Micro
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Protexis[™] Pl

- Designed to be comfortable and reliable for any type of surgical procedure
- Our most popular glove in the U.S. proven success!
- Synthetic, not made with natural rubber latex

Catalanna	c:	Louisth		Thickness ¹		Matarial	Calan	Cuff	Qty/	Qty/
Catalog no.	Size	Length	Finger	Palm	Cuff	Material	Color	type	bx	cs
2D72PT55X	5.5									
2D72PT60X	6	11.3 in./ 287mm								
2D72PT65X	6.5	207111111								
2D72PT70X	7		9.1 mil/	6.7 mil/	6.7 mil/	Synthetic		Beaded/	50	200
2D72PT75X	7.5]	0.23mm	0.17mm	0.17mm	polyisoprene (PI)	Cream	Rolled	50	200
2D72PT80X	8	11.8 in./ 300mm								
2D72PT85X	8.5									
2D72PT90X	9								A.	- 1's

See Appendix page 31 for complete testing standards See Appendix page 30 for chemotherapy agent permeation results







Protexis[™] Pl with Neu-Thera[®]

- Designed to be comfortable and reliable for any type of surgical procedure
- Same great engineering as our Protexis™ PI with our patented **Neu-Thera**® coating
- Synthetic, not made with natural rubber latex

What is Neu-Thera®?1

Neu-Thera® is a moisturizing coating that we place on the inside of Protexis™ PI with Neu-Thera®. It promotes overall skin wellness and supports hand health by providing relief of dry, flaky skin and minimizing skin shedding.

Catalog	c:	1 4 b		Thickness ²		Madavial	Calan	Cuff	Qty/	Qty/												
no.	Size	Length	Finger	Palm	Cuff	Material	Color	type	bx	cs												
2D73TE55	5.5																					
2D73TE60	6	11.3 in./ 287mm																				
2D73TE65	6.5	28/111111	20/111111	20711111	20711111				Synthetic polyisoprene													
2D73TE70	7		9.1 mil/	9.8 mil/	6.7 mil/	(PI) with		Beaded/	50	200												
2D73TE75	7.5		0.23mm	0.25mm	0.17mm	Neu-Thera®		Rolled	30	200												
2D73TE80	8	11.8 in./	1							11.8 in./ 300mm								Emollient Coating	Cream			
2D73TE85	8.5																					
2D73TE90	9																					



^{1.} Data on file

^{2.} Thickness tested in accordance with ASTM D 3577 cardinalhealth.com/protexis





Protexis[™] Pl Classic

- Designed to be comfortable and reliable for any type of surgical procedure
- Thicker than Protexis™ PI Surgical Gloves
- Synthetic, not made with natural rubber latex

Catalanna	c:	I am mile		Thickness ¹		Matavial	Calan	Cuff	Qty/	Qty/
Catalog no.	Size	Length	Finger	Palm	Cuff	Material	Color	type	bx	CS
2D72PL55X	5.5									
2D72PL60X	6	11.5 in./ 292mm								
2D72PL65X	6.5	2,2,1,1,11								
2D72PL70X	7		11.2 mil/	8.3 mil/	7.1 mil/	Synthetic		Beaded/	F0	200
2D72PL75X	7.5		0.28mm	0.21mm	0.18mm	polyisoprene (PI)		Rolled	50	200
2D72PL80X	8	12 in./ 305mm					Cream			
2D72PL85X	8.5	30311111								
2D72PL90X	9								3	111111111111111111111111111111111111111





Protexis™ Pl Blue with Neu-Thera®

- Ideal underglove when double-gloving
- Distinct blue color aids in alerting wearers to perforations in the outer glove
- Synthetic, not made with natural rubber latex

What is Neu-Thera®?1

Neu-Thera® is a moisturizing coating/emollient that is placed on the inside of Protexis™ PI Blue with Neu-Thera®. It promotes overall skin wellness and supports hand health by providing relief of dry, flaky skin and minimizing skin shedding.

Catalog	c:	Louisth		Thickness ²		Matavial	Calan	Cuff	Qty/	Qty/
no.	Size	Length	Finger	Palm	Cuff	Material	Color	type	bx	cs
2D73EB55	5.5									
2D73EB60	6	11.3 in./ 287mm								
2D73EB65	6.5	20711111				Synthetic polyisoprene				
2D73EB70	7		7.9 mil/	5.5 mil/	5.5 mil/	(PI) with		Beaded/		200
2D73EB75	7.5		0.20mm	0.14mm	0.14mm	Neu-Thera®		Rolled	50	200
2D73EB80	8	11.8 in./ 300mm				Emollient Coating	Blue			
2D73EB85	8.5									
2D73EB90	9									

See Appendix page 31 for complete testing standards





Protexis™ Surgical Gloves

2. Thickness tested in accordance with ASTM D 3577 cardinalhealth.com/protexis



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Protexis™ Pl Micro

- Stretches and conforms to your hand contour, staying comfortably in place
- Ideal in a thin double-gloving system where fingertip sensation is essential
- Heightened tactile response with a comfortable, smooth, anti-slip finish
- Synthetic, not made with natural rubber latex

Catalog	c:	Louish		Thickness ¹		Metaviel	Calan	Cuff	Qty/	Qty/
no.	Size	Length	Finger	Palm	Cuff	Material	Color	type	bx	CS
2D73PM55	5.5									
2D73PM60	6	11.3 in./ 287mm								
2D73PM65	6.5	20711111								
2D73PM70	7		7.9 mil/	5.5 mil/	5.5 mil/	Synthetic		Beaded/	50	200
2D73PM75	7.5		0.20mm	0.14mm	0.14mm	polyisoprene (PI)		Rolled	30	200
2D73PM80	8	11.8 in./ 300mm					Cream			
2D73PM85	8.5									
2D73PM90	9									









Protexis™ Pl Orthopaedic

- Thickest glove in the synthetic portfolio
- Smooth finish for tactile sensitivity
- Water-based hydrogel coating for easy donnability
- Durable for broaching and tactile for pinning
- Rich brown color reduces glare from surgical lighting
- Synthetic, not made with natural rubber latex

Catalanna	C:	Lawath		Thickness ¹		Matarial	Color	Cull home	Qty/	Qty/
Catalog no.	Size	Length	Finger	Palm	Cuff	Material	Color	Cuff type	bx	cs
2D73HT60	6	11.5 in./								
2D73HT65	6.5	291mm				Synthetic				
2D73HT70	7					polyisoprene (PI) with				
2D73HT75	7.5]	13.4 mil/ 0.34mm	10.2 mil/ 0.26mm	8.3 mil/ 0.21mm	water-based		Beaded/ Rolled	40	160
2D73HT80	8	12.0 in./ 305mm	0.5	0.20	0.2	hydrogel polymer	Brown			
2D73HT85	8.5					coating				3
2D73HT90	9									1







Protexis™ Pl Ortho

- Cardinal Health is the #1 synthetic glove leader¹
- Thicker glove for additional protection²
- Can be worn stand alone, when a single layer of protection is preferred or as the top or bottom gloves when double-gloving
- Interlocking, beaded cuff design helps to educe roll-down
- Proprietary hand mold with an independent thumb design allows for an anatomical fit and natural movement

Catalanna	C:	I am with		Thickness ³		Matarial	Calan	C. # house	Qty/	Qty/
Catalog no.	Size	Length	Finger	Palm	Cuff	Material	Color	Cuff type	bx	CS
2D73ET60	6	11.5 in./								
2D73ET65	6.5	292mm								
2D73ET70	7					Synthetic				
2D73ET75	7.5		12.2 mil/ 0.31mm	8.3 mil/ 0.21mm	7.5 mil/ 0.19mm	polyisoprene		Beaded/ Rolled	40	160
2D73ET80	8	12.0 in./ 305mm	0.5111111	0.2111111	0.1711111	(PI)	Cream	Honed		
2D73ET85	8.5]					Credin			4
2D72LS90	9]								

See Appendix page 31 for complete testing standards



2. As compared to Cardinal Health™ Protexis™ Latex Surgical Gloves

cardinalhealth.com/protexis



^{3.} In accordance with ASTM D 3577





Protexis[™] Pl Textured

- Textured finish ensures exceptional grip under dry and damp conditions
- Designed with anatomic fit to help reduce hand fatigue and texture to enhance grip
- Balances tactile sensitivity with protection, even when double gloving
- Smooth glide between fingers due to textured zones

- Water-based hydrogel coating for easy donnability enhances second-skin comfort
- Interlocking, beaded cuff design helps to prevent roll-down
- Proprietary hand mold with an independent thumb design allows for natural movement

Catalanna	c:	I am with		Thickness ¹		Matarial	Calan	C. II have a	Qty/	Qty/
Catalog no.	Size	Length	Finger	Palm	Cuff	Material	Color	Cuff type	bx	cs
2D72TG55	5.5									
2D72TG60	6	11.4 in./ 289mm								
2D72TG65	6.5	20311111					_			
2D72TG70	7					Synthetic				
2D72TG75	7.5]	10.6 mil/ 0.27mm	8.3 mil/ 0.21mm	7.1 mil/ 0.18mm	polyisoprene		Beaded/ Rolled	50	200
2D72TG80	8	11.9 in./ 303mm	0.27	0.2		(PI)	Cream			
2D72TG85	8.5						2.2411			W. see Steel
2D72TG90	9									4

See Appendix page 31 for complete testing standards



Protexis

cardinalhealth.com/protexis

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Protexis[™] Neoprene

- Thinner and softer for enhanced tactile response¹
- Synthetic, not made with natural rubber latex

Catalog	~ :	I am with		Thickness ²			C.1	Cuff	Qty/	Qty/		
no.	Size	Length	Finger	Palm	Cuff	Material	Color	type	bx	cs		
2D73DP55	5.5											
2D73DP60	6	11.1 in./ 282mm										
2D73DP65	6.5	20211111				Synthetic						
2D73DP70	7		6.7 mil/	5.5 mil/	5.5 mil/	neoprene with		Beaded/	50	200		
2D73DP75	7.5		0.17mm	0.14mm	0.14mm	nitrile	Liabt	Rolled	50	200		
2D73DP80	8	11.7 in./ 297mm				polymer coating	Light brown					
2D73DP85	8.5	_ 297mm	- 297mm	297mm	297mm	297mm		Coating				-AF
2D73DP90	9											

See Appendix page 31 for complete testing standards See Appendix page 30 for chemotherapy agent permeation results



2. Thickness tested in accordance with ASTM D 3577

cardinalhealth.com/protexis







Protexis[™] Neoprene Essential

- Manufactured without traditional chemical accelerators that have been known to cause skin sensitivities
- Smooth finish for tactile sensitivity
- Nitrile coating for strength, protection and easy donnability
- Utilizes a specific formulation of zinc oxide during the curing process as an alternative to the four classes of chemical accelerators that are known to lead to type IV allergies.¹
- Synthetic, not made with natural rubber latex

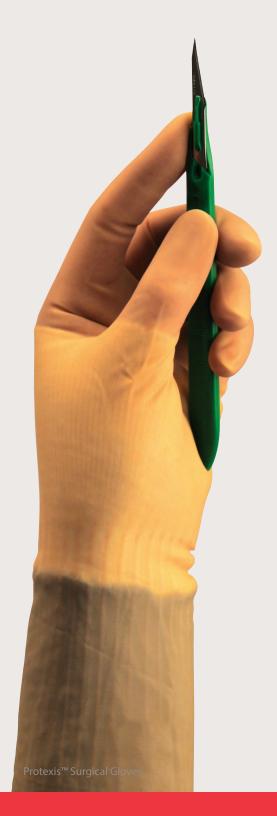
2D73DS55 2D73DS60 2D73DS65 2D73DS70 2D73DS75 2D73DS80	c:	1		Thickness ²	2	Mataulal	Calan	Cuttama	Qty/	Qty/						
	Size	Length	Finger	Palm	Cuff	Material	Color	Cuff type	bx	cs						
2D73DS55	5.5															
2D73DS60	6	11.1 in./ 282mm														
2D73DS65	6.5	20211111				Synthetic										
2D73DS70	7	11.7 in./			6.7 mil/	≥ 5.5mil/	≥ 5.5mil/	neoprene with nitrile		Beaded/	50	200				
2D73DS75	7.5		0.17mm	≥ 0.14mm	≥ 0.14 mm	polymer	Light	Rolled	50	200						
2D73DS80	8								11.7 in./ 297mm				coating	Light brown		
2D73DS85	8.5	257111111								and the						
2D73DS90	9							1	anne,	-						

See Appendix page 31 for complete testing standards Not made with traditional chemical accelerators See Appendix page 30 for chemotherapy agent permeation results



^{2.} Thickness tested in accordance with ASTM D 3577







Protexis[™] Latex

- Versatile glove to be used in a wide variety of surgical environments
- Brown tint blends with the wearer's skin for protection that is unobtrusive and less noticeable

Catalanna	c:	I am male		Thickness	1	Matarial	Calan	Cuff	Protein	Qty/	Qty/											
Catalog no.	Size	Length	Finger	Palm	Cuff	Material	Color	type	content ²	bx	CS											
2D72NS55X	5.5																					
2D72NS60X	6	11.1 in./ 282mm																				
2D72NS65X	6.5	202111111				Natural rubber																
2D72NS70X	7		9.8 mil/	7.9 mil/	7.5 mil/	latex with		Beaded/	Less than	50	200											
2D72NS75X	7.5		0.25mm	0.20mm	0.19mm	nitrile	Liabt	Rolled	50 μg/dm²	50	200											
2D72NS80X	8	11.6 in./								11.6 in./ 295mm							polymer coating	Light Brown				
2D72NS85X	8.5	25511111								45	5											
2D72NS90X	9		nm							1	-											



^{2.} Protein content tested using ASTM D 5712





Protexis[™] Latex with Neu-Thera[®]

- Designed to be comfortable and reliable for any type of surgical procedure
- Same great engineering as our Protexis™ Latex with our patented Neu-Thera® coating

What is Neu-Thera®?1

Neu-Thera® is a moisturizing coating/emollient that is placed on the inside of Protexis™ Latex with Neu-Thera®. It promotes overall skin wellness and supports hand health by providing relief of dry, flaky skin and minimizing skin shedding.

Catalog	C:	1		Thickness	2	Massarial	Calan	Cuff	Protein	Qty/	Qty/
no.	Size	Length	Finger	Palm	Cuff	Material	Color	type	content ³	bx	CS
2D73TP55	5.5										
2D73TP60	6	11.1 in./ 282mm				Natural rubber					
2D73TP65	6.5	20211111				latex with					
2D73TP70	7		9.8 mil/	7.9 mil/	7.5 mil/	nitrile		Beaded/	Less than	50	200
2D73TP75	7.5		0.25mm	0.20mm	0.19mm	polymer and	1:	Rolled	50 μg/dm ²	50	200
2D73TP80	8	11.7 in./ 297mm				Neu-Thera®	Light brown				
2D73TP85	8.5	25,11111				Emollient Coating				45	
2D73TP90	9								St.		



^{2.} Thickness tested in accordance with ASTM D 3577



^{3.} Protein content tested using ASTM D 5712 $\,$





Protexis[™] Latex Classic

- Designed to protect in a broad range of cases
- Ideal outer glove when double-gloving, or can be worn as a stand-alone glove
- Exceptional protection, dexterity and an advanced grip

Catalog	Size	Longith		Thickness	1	Material	Color	Cuff	Protein	Qty/	Qty/
no.	Size	Length	Finger	Palm	Cuff	Materiai	Color	type	content ²	bx	CS
2D72N55X	5.5										
2D72N60X	6	11.5 in./ 292mm									
2D72N65X	6.5	2,2,11111				Natural rubber					
2D72N70X	7		9.8 mil/	7.9 mil/	7.5 mil/	latex with		Beaded/	Less than	50	200
2D72N75X	7.5		0.25mm	0.20mm	0.19mm	nitrile)	Rolled	50 μg/dm²	50	200
2D72N80X	8	12 in./ 305mm				polymer coating	Cream				
2D72N85X	8.5	30311111									
2D72N90X	9										-



^{1.} Thickness tested in accordance with ASTM D 3577

^{2.} Protein content tested using ASTM D 5712





Protexis[™] Latex Hydrogel

- Balances tactile sensitivity with protection, even when double-gloving
- Water-based hydrogel coating for easy donnability with wet or dry hands and enhances second-skin comfort of latex

Catalog	Size	Lamash		Thickness		Matarial	Color	Cuff	Protein	Qty/	Qty/
no.	Size	Length	Finger	Palm	Cuff	Material	Color	type	content ²	bx	cs
2D72LS55	5.5										
2D72LS60	6	11.5 in./ 292mm				Natural rubber					
2D72LS65	6.5	2,2111111				latex					
2D72LS70	7		9.8 mil/	9.1 mil/	7.1 mil/	coated		Beaded/	Less than	50	200
2D72LS75	7.5		0.25mm	0.23mm	0.18mm	with acrylic	Translucent	Rolled	50 μg/dm²	50	200
2D72LS80	8	12 in./ 305mm				hydrogel	Yellow				
2D72LS85	8.5	30311111				polymer coating					100
2D72LS90	9										49

See Appendix page 31 for complete testing standards



SURGICAL GLOVES

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^{1.} Thickness tested in accordance with ASTM D 3577

^{2.} Protein content tested using ASTM D 5712





Protexis[™] Latex Blue with Neu-Thera®

- Ideal underglove when double-gloving
- Distinct blue color aids in alerting wearers to perforations in the outer glove
- Designed to be comfortable and reliable for any type of surgical procedure

What is Neu-Thera®?1

Neu-Thera® is a moisturizing coating/emollient that is placed on the inside of Protexis™ Latex Blue with Neu-Thera®. It promotes overall skin wellness and supports hand health by providing relief of dry, flaky skin and minimizing skin shedding.

Catalog	Size	Lanath	1	Thickness	2	Matavial	Color	Cuff	Protein	Qty/	Qty/
no.	Size	Length	Finger	Palm	Cuff	Material	Color	type	content ³	bx	cs
2D72LU55	5.5										
2D72LU60	6	11.1 in./ 282mm				Natural rubber					
2D72LU65	6.5	202111111				latex with					
2D72LU70	7		7.87 mil/	5.5 mil/	5.5 mil/	nitrile		Beaded/	Less than	50	200
2D72LU75	7.5		0.20mm	0.14mm	0.14mm	polymer and		Rolled	50 μg/dm²	50	200
2D72LU80	8	11.6 in./ 295mm				Neu-Thera®	Blue				
2D72LU85	8.5					Emollient Coating				1111	Service Control
2D72LU90	9										nonte



^{2.} Thickness tested in accordance with ASTM D 3577



^{3.} Protein content tested using ASTM D 5712





Protexis[™] Latex Micro

- Stretches and conforms to your hand contour, staying comfortably in place
- Ideal in a thin double-gloving system where fingertip sensation is essential
- 30 percent thinner for enhanced flexibility and tactile sensitivity
- Heightened tactile response with a comfortable, smooth, anti-slip finish

Catalagua	C:	Louesth		Thickness	1	Material	Color	Cuff	Protein	Qty/	Qty/
Catalog no.	Size	Length	Finger	Palm	Cuff	Material	Color	type	content ²	bx	CS
2D72NT55X	5.5										
2D72NT60X	6	11.1 in./ 282mm									
2D72NT65X	6.5	202111111				Natural					
2D72NT70X	7		6.9 mil/	5.5 mil/	5.5 mil/	rubber latex with nitrile		Beaded/	Less than	50	200
2D72NT75X	7.5		0.17mm	0.14mm	0.14mm	polymer	1:	Rolled	50 μg/dm²	50	200
2D72NT80X	8	11.6 in./ 295mm				coating	Light brown				
2D72NT85X	8.5									4	
2D72NT90X	9								ian	marca.	



^{1.} Thickness tested in accordance with ASTM D 3577

^{2.} Protein content tested using ASTM D 5712





Protexis[™] Latex Ortho

- Thickest glove in the latex portfolio
- Smooth finish for tactile sensitivity
- Water-based hydrogel coating for easy donning
- Durable for broaching and tactile for pinning
- Rich brown color reduces glare from surgical lighting

Catalog	Ci	Loueth		Thickness ¹		Material	Colon	Cuff	Protein	Qty/	Qty/
no.	Size	Length	Finger	Palm	Cuff	Material	Color	type	content ²	bx	CS
2D72LT60	6	11.1 in./				Natural					
2D72LT65	6.5	282mm				Natural rubber	_				
2D72LT70	7					latex with					
2D72LT75	7.5		13.4 mil/ 0.34mm	9.4 mil/ 0.24mm	8.3 mil/ 0.21mm	water- based		Beaded/ Rolled	Less than 50 µg/dm²	40	160
2D72LT80	8	11.6 in./ 295mm	0.5	0.2	0.21111111	hydrogel	Brown	Honed	30 ду/ан		
2D72LT85	8.5					polymer coating	D. SWIII				-
2D72LT90	9					Coating					



^{2.} Protein content tested using ASTM D 5712

Environmental stewardship

The *Protexis™ Perfect Fit* is a commitment to practicing sustainable manufacturing and packaging practices and reducing our environmental impact in the global supply chain. Our culture of safety and best practice is not lost on the global ecosystem in which we operate.



Sustainable manufacturing & packaging practices¹

95% of surgical glove inner wallets are made from recyclable and renewable paper sources

Product shipping boxes utilize at least 80% recycled corrugated cardboard

All Cardinal Health™ Protexis™ surgical gloves are made **DEHP and PVC-free**

Cardinal Health™ Protexis™ was the first surgical gloves manufacturer to launch **sustainable** half-fold packaging





Cardinal Health™ Protexis™ Testing standards and technical data



Non-latex polyisoprene This product is not made with natural rubber latex













Properties (before aging)	Protexis™ PI	Protexis™ Pl with Neu ⁻ Thera®	Protexis™ PI Classic	Protexis™ PI Blue with Neu ⁻ Thera®	Protexis™ PI Micro	
Tensile strength (min)	17 MPa ¹	17 MPa ¹	17 MPa ¹	17 MPa ¹	17 MPa ¹	
Stress at 500% elongation (modulus) (max)	7.0 MPa ¹	7.0 MPa ¹	7.0 MPa ¹	7.0 MPa ¹	7.0 MPa ¹	
Ultimate elongation (elasticity) (min)	650%¹	650%¹	650%¹	650%¹	650%¹	
Puncture resistance (cuff) ²	AV = 7N	AV = 12N	AV = 8N	AV = 12N	AV = 8N	
Freedom from holes ³	0.65 AQL ¹	0.65 AQL ¹	0.65 AQL ¹	0.65 AQL ¹	0.65 AQL ¹	
Sterilization	Gamma radiation	Gamma radiation	Gamma radiation	Gamma radiation	Gamma radiation	
Accelerant	Zinc die	Zinc diethyldithiocarbamate (ZDEC), Zinc mercaptobenzothiazole (ZMBT), Diphenylguanidine (DPG)				







Properties (before aging)	Protexis™ PI Orthopaedic	Protexis™ PI Ortho	Protexis™ PI Textured
Tensile strength (min)	17 Mpa ¹	17 MPa ¹	17 MPa ¹
Stress at 500% elongation (modulus) (max)	7.0 Mpa ¹	7.0 MPa ¹	7.0 MPa ¹
Ultimate elongation (elasticity) (min)	650%¹	650%¹	650%¹
Puncture resistance (cuff) ²	AV = 22N	AV = 5N	N/A
Freedom from holes ³	0.65 AQL ¹	0.65 AQL ¹	0.65 AQL ¹
Sterilization	Gamma radiation	Gamma radiation	Gamma radiation
Accelerant	Zinc diethyldithiocarb	amate (ZDEC), Zinc mercapto Diphenylguanidine (DPG)	benzothiazole (ZMBT),

Non-latex neoprene







Properties (before aging)	Protexis™ Neoprene	Protexis™ Neoprene Essential
Tensile strength (min)	17 MPa ¹	17 MPa ¹
Stress at 500% elongation (modulus) (max)	7.0 MPa ¹	7.0 MPa ¹
Ultimate elongation (elasticity) (min)	650%¹	650%¹
Puncture resistance (cuff) ²	AV = 7N	AV = 12N
Freedom from holes ⁸	0.65 AQL ¹	0.65 AQL ¹
Sterilization	Gamma radiation	Gamma radiation
Accelerant	ZDBC (Zinc Dibutyldithiocarbamate)	Zinc Oxide (an alternative to traditional chemical accelerators known to lead to type IV allergies)

- 1. In accordance with ASTM D 3577
- 2. Tested in accordance with AS/NZS 4179, min 5 N
- 3. Tested in accordance with ASTM D 5151

Latex



NATURAL RUBBER LATEX















Properties (before aging)	Protexis™ Latex	Protexis™ Latex with Neu ⁻ Thera®	Protexis™ Latex Classic	Protexis™ Latex Hydrogel	Protexis [™] Latex Blue with Neu ⁻ Thera®	Protexis™ Latex Micro	Protexis™ Latex Ortho
Tensile strength (min)	24 MPa ¹	24 MPa ¹	24 MPa ¹	24 MPa ¹	24 MPa ¹	24 MPa ¹	24 Mpa ¹
Stress at 500% elongation (modulus) (max)	5.5 MPa ¹	7.0 MPa ¹	5.5 MPa ¹	5.5 MPa ¹	5.5 MPa ¹	5.5 MPa ¹	5.5 Mpa¹
Ultimate elongation (elasticity) (min)	750%1	650%¹	750%¹	750%¹	750%¹	750%¹	750%¹
Puncture resistance (cuff) ²	AV = 12N	AV = 14N	AV = 12N	AV = 7N	AV = 14N	AV = 9N	AV = 17N
Freedom from holes ³	0.65 AQL¹	0.65 AQL¹	0.65 AQL ¹	0.65 AQL ¹	0.65 AQL ¹	0.65 AQL ¹	0.65 AQL ¹
Sterilization	Gamma radiation	Gamma radiation	Gamma radiation	Gamma radiation	Gamma radiation	Gamma radiation	Gamma radiation
Accelerant			ZD	BC (Zinc Dibutyldithio	ocarbamate)		

- 1. In accordance with ASTM D 3577
- 2. Tested in accordance with AS/NZS 4179, min 5 N
- 3. Tested in accordance with ASTM D5151



Chemotherapy agent permeation testing

All gloves listed below meet the requirements described in USP <800>, including being powder-free and meeting ASTM Standard D6978 testing for chemotherapy drug permeation.

Agent	Minimum brea	kthrough detection time in minutes (0.01	μg/cm²/minute)
	Protexis™ Pl¹	Protexis™ Neoprene²	Protexis™ Neoprene Essential³
Carmustine (BCNU) (3.3mg/mL)	15.26	31.1	60.1
Cisplatin (1.0mg/mL)	> 240	> 240	> 240
Cyclophosphamide (20mg/mL)	> 240	> 240	> 240
Doxorubicin Hydrochloride (2.0mg/mL)	> 240	> 240	> 240
Etoposide (Toposar) (20mg/mL)	> 240	> 240	> 240
Fluorouracil (50mg/mL)	> 240	> 240	> 240
Methotrexate (25mg/mL)	> 240	> 240	> 240
Mitomycin C (0.5mg/ml)	_	_	> 240
Paclitaxel (Taxol) (6.0mg/mL)	> 240	> 240	> 240
ThioTEPA (10mg/mL)	16.04	76.0	110.5
Vincristine Sulfate (1.0mg/mL)	> 240	> 240	_
Vincristine (1.0mg/ml)	_	_	> 240

^{1.} Warning: Do not use PROTEXIS™ PI with Carmustine (BCNU) (3.3 mg/mL) or ThioTEPA (10 mg/mL).

^{3.} Caution: Testing showed an average breakthrough time of 60.1 minutes with Carmustine.



When chemotherapy drugs are present, glove selection should be based on the specific type(s) of chemicals used. Users should review drug labeling or Material Safety Data Sheets for the chemicals being used to determine an adequate level of protection.

These gloves have been tested for resistance to permeation of various chemotherapy drugs per ASTM D 6978, "Standard Practice for Assessment of Resistance of Medical Gloves to Permeation by Chemotherapy Drugs."



^{2.} Warning: Do not use PROTEXIS™ Neoprene with Carmustine (BCNU) (3.3 mg/ml).

Testing standards

Global Quality Standards tested for and adhered to (results on file)

ASTM D3577, EN 455-2, ISO 10282	Physical dimension (length, width, palm)
ASTM D3577, EN 455-2, ISO 10282	Physical properties (tensile strength)
ASTM D624	Tear strength testing (T-tear, V-tear)
AS/NZA 4179	Puncture resistant testing
ASTM D5151, EN 455-1, ISO 10282	Freedom from holes (water-tightness)
ASTM D6124, EN ISO 21171	Powder residue for powder-free gloves
ASTM D6124	Powder amount for powdered gloves
ASTM D5712	Aqueous extractable protein content
ASTM D6499	Antigenic protein content
EN 455-3	Leachable protein level, modified Lowry method
ASTM D7102, EN 455-3	Endotoxin
ASTM D7102, EN 455-3 ASTM D7160	Endotoxin Storage stability, accelerated aging
ASTM D7160	Storage stability, accelerated aging
ASTM D7160 ASTM D7161	Storage stability, accelerated aging Storage stability, real-time aging
ASTM D7160 ASTM D7161 ASTM F739, EN 16523	Storage stability, accelerated aging Storage stability, real-time aging Lab chemical permeation
ASTM D7160 ASTM D7161 ASTM F739, EN 16523 ASTM D6978, EN 16523	Storage stability, accelerated aging Storage stability, real-time aging Lab chemical permeation Chemotherapy drug permeation (results on page 28)
ASTM D7160 ASTM D7161 ASTM F739, EN 16523 ASTM D6978, EN 16523 ASTM F1671	Storage stability, accelerated aging Storage stability, real-time aging Lab chemical permeation Chemotherapy drug permeation (results on page 28) Bacteriophage penetration
ASTM D7160 ASTM D7161 ASTM F739, EN 16523 ASTM D6978, EN 16523 ASTM F1671 ISO 10993-10	Storage stability, accelerated aging Storage stability, real-time aging Lab chemical permeation Chemotherapy drug permeation (results on page 28) Bacteriophage penetration Sensitivity testing & primary skin irritation

PPE required testing (results on file)

EN 420:2003 + A1:2009	General requirements, size, dexterity, pH and extractable protein
EN 388:2016	Protective gloves against mechanical risks
EN ISO 374-1:2016	Performance requirements for chemicals risk
EN 374-2:2014	Resistance to penetration against dangerous chemicals and micro-organisms
EN 16523-1:2015	Materials resistance to permeation by chemicals
EN 374-4:2013	Resistance to degradation by chemicals
EN ISO 374-5:2016	Performance requirements for micro-organisms risk

Internal procedures (results on file)

- Bone cement permeation
- Low-hydration conductivity
- Residue accelerator test



The standards only apply as relevant to the respective product family.

Non-latex polyisoprene



	Catalanna	c:	Land		Thickness*		Material	Colon	C. (()	chantal and and	Qty/	Qty/
	Catalog no.	Size	Length	Finger	Palm	Cuff	Coating in red	Color	Cuff type	Chemical accelerant	bx	CS
	2D72PT55X	5.5										
	2D72PT60X	6	11.3 in./ 287mm				Synthetic					
<u> </u>	2D72PT65X	6.5	20/111111									
WOLER T	2D72PT70X	7		9.1 mil/	6.7 mil/	6.7 mil/			Beaded/	1. 1, 3-Diphenylguanidine (DPG) 2. Zinc Diethyldithiocarbamate (ZDEC)	50	200
Protexis [™] Pl	2D72PT75X	7.5		0.23mm	0.17mm	0.17mm	polyisoprene (PI)	_	Rolled	3. Zinc-2-mercaptobenzothiazole (ZMBT)	30	200
PROTEKIS	2D72PT80X	8	11.8 in./ 300mm				, ,	Cream				
The Atlanta	2D72PT85X	8.5	30011111									
	2D72PT90X	9										
	2D73TE55	5.5	11.3 in./		9.8 mil/ 0.25mm	6.7 mil/ 0.17mm						
Protexis" PI th Neu-Thera®	2D73TE60	6	287mm				Synthetic polyisoprene (PI) with Neu-Thera® Emollient Coating					
	2D73TE65	6.5									50	
	2D73TE70	7		9.1 mil/					Beaded/	1. 1, 3-Diphenylguanidine (DPG) 2. Zinc Diethyldithiocarbamate (ZDEC)		200
o te	2D73TE75	7.5	11.8 in./	0.23mm				Cream	Rolled	3. Zinc-2-mercaptobenzothiazole (ZMBT)		200
With Protestal and Protestal a	2D73TE80	8	300mm									
- 25-	2D73TE85	8.5										
	2D73TE90	9										
	2D72PL55X	5.5	11.5 in./									
Classic	2D72PL60X	6	292mm									
C	2D72PL65X	6.5					Synthetic			1. 1, 3-Diphenylguanidine (DPG)		
SOTENS E	2D72PL70X	7		11.2 mil/	8.3 mil/	7.1 mil/	polyisoprene		Beaded/	2. Zinc Diethyldithiocarbamate (ZDEC)	50	200
xis -	2D72PL75X	7.5	12 in./	0.28mm	0.21mm	0.18mm	(PI)		Rolled	3. Zinc-2-mercaptobenzothiazole (ZMBT)	30	
Protexis***	2D72PL80X	8	305mm					Cream				
ROTERS 7	2D72PL85X	8.5										
	2D72PL90X	9										

^{*}Thickness tested in accordance with ASTM D 3577



Non-latex polyisoprene



	Catalog no.	Size	Length		Thickness*		Material	Color	Cuff type	Chemical accelerant	Qty/	Qty/
	Catalog IIO.	Size	Length	Finger	Palm	Cuff	Coating in red	Color	Cuii type	Chemical accelerant	bx	CS
	2D73EB55	5.5	11.3 in./ 287mm									
<u>a</u> e	2D73EB60	6					Synthetic polyisoprene					
Protexis™ PI Blue with Neu-Thera®	2D73EB65	6.5										
	2D73EB70	7		7.9 mil/	5.5 mil/	5.5 mil/	(PI) with		Beaded/	1. 1, 3-Diphenylguanidine (DPG)		200
xis ¹	2D73EB75	7.5		0.20mm	0.14mm	0.14mm	Neu-Thera®		Rolled	Zinc Diethyldithiocarbamate (ZDEC) Zinc-2-mercaptobenzothiazole (ZMBT)	50	200
PROTESS 0 LAND AND A LAND A	2D73EB80	8	11.8 in./ 300mm				Emollient Coating	Blue		S. Z.iii Z. iiici captose i. Zoti iia Zoie (Ziiis i)		
	2D73EB85	8.5	300111111									
	2D73EB90	9										
	2D73PM55	5.5										
PI Micro	2D73PM60	6	11.3 in./ 287mm				Synthetic polyisoprene (PI)					
	2D73PM65	6.5	20/111111									
	2D73PM70	7		7.9 mil/	5.5 mil/ 0.14mm	5.5 mil/ 0.14mm			Beaded/ Rolled	1. 1, 3-Diphenylguanidine (DPG)		200
κis τ	2D73PM75	7.5		0.20mm						Zinc Diethyldithiocarbamate (ZDEC) Zinc-2-mercaptobenzothiazole (ZMBT)	50	200
Protexis	2D73PM80	8	11.8 in./ 300mm				Cream		,			
<u> </u>	2D73PM85	8.5	300111111									
	2D73PM90	9										
	2D73HT60	6	11.5 in./									
	2D73HT65	6.5	291mm				Synthetic	_				
edi P	2D73HT70	7					polyisoprene (PI) with			1. 1, 3-Diphenylguanidine (DPG)		
e Xix	2D73HT75	7.5		13.4 mil/	10.2 mil/	8.3 mil/	water-based		Beaded/ Rolled	2. Zinc Diethyldithiocarbamate (ZDEC)	40	160
Protexis** PI	2D73HT80	8	12.0 in./ 305mm	0.34mm	0.26mm	0.21mm	hydrogel		Rolled	3. Zinc-2-mercaptobenzothiazole (ZMBT)		
40	2D73HT85	8.5	วบวเทเท				polymer coating	Brown				
AH	2D73HT90	9										
									1	I.		

^{*}Thickness tested in accordance with ASTM D 3577



Non-latex polyisoprene



	Catalog no.	Size	Sizo Lo	Length	Thickness*			Material	Color	Cuff type	Chemical accelerant	Qty/	Qty/
	Catalog no.	Size	Length	Finger	Palm	Cuff	Coating in red	Color	Cuii type	Chemical accelerant	bx	cs	
	2D73ET60	6	11.5 in./										
th of the	2D73ET65	6.5	292mm										
MOTED O	2D73ET70	7		12.2 '1/	0.2 11/	7.5 .1,	Synthetic			1. 1, 3-Diphenylguanidine (DPG)			
Protexts.	2D73ET75	7.5	12.0: /	12.2 mil/ 0.31mm	8.3 mil/ 0.21mm	7.5 mil/ 0.19mm	polyisoprene (PI)	Cream	Beaded/ Rolled	2. Zinc Diethyldithiocarbamate (ZDEC)	40	160	
	2D73ET80	8	12.0 in./ 305mm	0.5111111	0.2111111	0.1311111				3. Zinc-2-mercaptobenzothiazole (ZMBT)			
	2D73ET85	8.5											
	2D72LS90	9											
70	2D72TG55	5.5											
ured	2D72TG60	6	11.4 in./ 289mm										
The state of the s	2D72TG65	6.5	20711111										
Protevier Total	2D72TG70	7		10.6 mil/	8.3 mil/	7.1 mil/	Synthetic polyisoprene		Beaded/	1. 1, 3-Diphenylguanidine (DPG) 2. Zinc Diethyldithiocarbamate (ZDEC)	50	200	
PITEL DESCRIPTION	2D72TG75	7.5	44.0 . /	0.27mm	0.21mm	0.18mm	(PI)		Rolled	3. Zinc-2-mercaptobenzothiazole (ZMBT)	50	200	
Protexis bush with the state of	2D72TG80	8	11.9 in./ 303mm					Cream					
	2D72TG85	8.5	505111111										
	2D72TG90	9											

Non-latex neoprene



	Catalog no.	Size	Sizo	Sizo	Sizo	Sizo	Sizo	Siza	Length		Thickness*		Material	Color	Cuff type	Chemical accelerant	Qty/	Qty/
	Catalog IIO.	Jize	Length	Finger	Palm	Cuff	Coating in red	Color	Cuii type	Chemical accelerant	bx	CS						
	2D73DP55	5.5																
ene	2D73DP60	6	11.1 in./ 282mm															
Sill Ja	2D73DP65	6.5	202111111				Synthetic											
Notery No	2D73DP70	7		6.7 mil/	5.5 mil/	5.5 mil/	neoprene with nitrile polymer	Light Brown	Beaded/ Rolled	7:	F0	200						
Protexis ®	2D73DP75	7.5		0.17mm	0.14mm	0.14mm				Zinc Dibutyldithiocarbamate (ZDBC)	50	200						
PROTEXIS	2D73DP80	8	11.7 in./ 297mm															
Pro	2D73DP85	8.5	257111111															
	2D73DP90	9																
	2D73DS55	5.5																
rene	2D73DS60	6	11.1 in./ 282mm															
op a	2D73DS65	6.5	202111111				Synthetic											
Neopri intial	2D73DS70	7		6.7 mil/	≥ 5.5mil/	≥ 5.5mil/ ≥ 0.14	neoprene		Beaded/	Manufactured with Zinc Oxide, an alternative to traditional	50	200						
ESSENT ESSENT	2D73DS75	7.5		0.17mm	≥ 0.14mm	≥ 0.14 mm	with nitrile		Rolled	chemical accelerators	50	200						
	2D73DS80	8	11.7 in./ 297mm				polymer	Light Brown										
Pro	2D73DS85 8.5					2.000												
	2D73DS90	9																

^{*}Thickness tested in accordance with ASTM D 3577



Latex



	Catalanna	c:	Lamosth		Thickness*		Material	Calan	Collins	Protein	Chemical	Qty/	Qty/
	Catalog no.	Size	Length	Finger	Palm	Cuff	Coating in red	Color	Cuff type	content	accelerant	bx	CS
	2D72NS55X	5.5	11.1 in./ 282mm										
atex	2D72NS60X	6											
	2D72NS65X	6.5	20211111				Natural rubber						l i
MOTE	2D72NS70X	7		9.8 mil/	7.9 mil/	7.5 mil/	latex		Beaded/	Less than	Zinc Dibutyldithio-	50	200
Protexis" Latex	2D72NS75X	7.5	11.6: /	0.25mm	0.20mm	0.19mm	with nitrile		Rolled	50 μg/dm²	carbamate (ZDBC)	30	200
	2D72NS80X	8	11.6 in./ 295mm				polymer	Light					
	2D72NS85X	8.5	27311111					Brown					
	2D72NS90X	9	<u> </u>										ļļ
	2D73TP55	5.5	11.1 in./				Natural rubber latex with nitrile polymer and						
acc ×	2D73TP60	6	282mm			7.5 mil/ 0.19mm							
SIII 1	2D73TP65	6.5	20211111		7.9 mil/						Zinc Dibutyldithio- carbamate (ZDBC)		
F.S.	2D73TP70	7		9.3 mil/					Beaded/	Less than		50	200
Protexis** Latex with Neu-Thera®	2D73TP75	7.5	11.7 in./	0.24mm	0.20mm		Neu-Thera®	1. 1.	Rolled	50 μg/dm²	cursumate (255c)	30	200
	£ 2D73TP80	8	297mm				Emollient	Light Brown					
	2D/31P63	8.5					Coating	BIOWII					
	2D73TP90	9											
	2D72N55X	5.5	11.5 in./			7.5 mil/ 0.19mm	Natural rubber latex with nitrile polymer						
ă X	2D72N60X	6	292mm										
Protexis ⁷⁷ Latex	2D72N65X	6.5								Zinc Dibutyldithio-			
N.S.	2D72N70X	7		9.8 mil/	7.9 mil/				Beaded/	Less than 50 μg/dm²	carbamate (ZDBC)	50	200
, i	2D72N75X	7.5	12 in./	0.25mm	0.20mm				Rolled				
PROTEINS D	2D72N80X	8	305mm				porymer	Cream					
	2D/2N85X	8.5											
	2D72N90X 2D72LS55	9 5.5											\vdash
	2D72LS55 2D72LS60	6	11.5 in./										
tex	20721.665	6.5	292mm				Natural						
La Sawas	2D72L570	7		9.8 mil/	9.1 mil/	7.1 mil/	rubber latex		Dandad/	Lassabasa	Zinc Dibutyldithio-		
existm	2D72LS65 2D72LS70 2D72LS75	7.5		9.8 mii/ 0.25mm	9.1 mii/ 0.23mm	0.18mm	with acrylic		Beaded/ Rolled	Less than 50 µg/dm²	carbamate (ZDBC)	50	200
e e	2D72L580	8	12 in./	3.2311111	0.2311111	5.1011111	hydrogel	Translucent	, noned	50 μg/am²			
Prot.	2D72L585	8.5	305mm				polymer	Yellow					
	2D72LS90	9											
	20/20390	'							l	1		1	

^{*}Thickness tested in accordance with ASTM D 3577



Latex



		Catalog no.	Size	Length		Thickness*		Material	Color	Cuff type	Protein	Chemical	Qty/	Qty/
_		Catalog IIO.	Size	Length	Finger	Palm	Cuff	Coating in red	Color	Cuil type	content	accelerant	bx	CS
		2D72LU55	5.5											
	lue ®	2D72LU60	6	11.1 in./ 282mm				Natural rubber						
	ex B	2D72LU65	6.5	202111111				latex						
NOTES AND	۳ Latex Blue اeu-Thera®	2D72LU70	7		7.87 mil/	5.5 mil/	5.5 mil/	with nitrile		Beaded/	Less than	Zinc Dibutyldithio- carbamate (ZDBC)	50	200
7	is™ Net	2D72LU75	7.5		0.20mm	0.14mm	0.14mm	polymer and Neu-Thera® Emollient Coating		Rolled	50 μg/dm²	Carbamate (ZDBC)	50	200
PROTEOS*	texi	2D72LU80	8	11.6 in./ 295mm					Blue					
	Protexis™ La with Neu-	2D72LU85	8.5	27311111										
		2D72LU90	9											
		2D72NT55X	5.5											
All I	Aicre	2D72NT60X	6	11.1 in./ 282mm					_					
Latex Micro	2D72NT65X	6.5	20211111		5.5 mil/	5.5 mil/	Natural rubber latex with							
	2D72NT70X	7		6.9 mil/					Beaded/	Less than	Zinc Dibutyldithio- carbamate (ZDBC)	50	200	
		2D72NT75X	7.5		0.17mm	17mm 0.14mm	0.14mm	nitrile polymer	Light Brown	Rolled	50 μg/dm²	Carbaniate (ZDBC)	30	200
PROTEOS Line Many 7 Is	Protexis™	2D72NT80X	8	11.6 in./ 295mm										
7500	Prof	2D72NT85X	8.5	25511111										
		2D72NT90X	9											
	ho	2D72LT60	6	11.1 in./										
- 100	atex Ortho	2D72LT65	6.5	282mm				Natural rubber						
	tex	2D72LT70	7		40.4 11/		0.0 11/	latex with				Zinc Dibutyldithio-		
SURGICAL GLOVEY	Lai	2D72LT75	7.5	44.6.	13.4 mil/ 0.34mm	9.4 mil/ 0.24mm	8.3 mil/ 0.21mm	water-based hydrogel		Beaded/ Rolled	Less than 50 µg/dm²	carbamate (ZDBC)	40	160
Protexis, T	xis [™]	2D72LT80	8	11.6 in./ 295mm	0.5411111	0.2411111	0.2111111	polymer	Brown	Nonea	σο μg/απ			
	2D72LT85	8.5	27311111				coating	DIOWII						
	Pr	2D72LT90	9								1			

^{*}Thickness tested in accordance with ASTM D 3577







cardinalhealth.com/protexis

Cardinal Health Dublin, Ohio

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