

The Essential  
**KRUUSE Veterinary Glove Handbook**  
3<sup>rd</sup> Edition



### Surgical Gloves

Surgical gloves have the highest demand from the veterinarians, therefore, comfort, feel and protection need to be excellent. KRUUSE has in many years been supplying KRUTEX surgical gloves, which in many countries are the vets preferred choice. Together with leading glove experts we have upgraded the quality of the KRUTEX surgical gloves and we have now come out with a completely new glove with a hydrophilic inner polymer coating. The new glove is called KRUTEX Vet-Gel Surgical Glove. This glove is the ideal glove for the vet surgeon where only the best is good enough.

### KRUTEX Vet-Gel Surgical Gloves, Sterile, Powder Free

The KRUTEX Vet-Gel Surgical Glove is the ideal glove for surgery, as it is fast to apply even with damp hands. Donning gloves when hands are damp is always difficult. In the surgical theatre, each second counts in saving life. KRUUSE’s solution to the problem is the introduction of the Vet-Gel Surgical Glove, which is especially designed with a hydrophilic inner polymer coating to assist the damp hands to slide into the glove easily without hindrance or failure. The Vet-Gel Surgical Gloves also have an outer polymer coating, which assists in having a good holding grip of the instruments even when wet.

#### Features and benefits

- Excellent dry and damp donning capabilities for fast application
- Micro-textured and outer polymer coating provide good grip for efficient instrument handling
- Hand specific with curved finger design for maximum dexterity
- Free of thiurams and thiazoles
- Low protein and UN-detectable chemical due to extensive leaching during manufacturing process
- Optimum thickness distribution for excellent tactile sensitivity
- Biodegradable, environmentally friendly
- Excellent viral barrier properties
- Packed in premium PET/PE film pouch for added protection
- Colour coded for easy recognition

For technical properties of the KRUTEX Vet-Gel Surgical Gloves and quality tests performed, please refer to the surgical gloves technical specification guide on page 7.



Code	Description	Size	Palm width	Pack size
260918	KRUTEX Vet-Gel surgical gloves, sterile, powder free	5.5	72 ± 4 mm	50 pairs
260911	KRUTEX Vet-Gel surgical gloves, sterile, powder free	6.0	77 ± 5 mm	50 pairs
260912	KRUTEX Vet-Gel surgical gloves, sterile, powder free	6.5	83 ± 5 mm	50 pairs
260913	KRUTEX Vet-Gel surgical gloves, sterile, powder free	7.0	89 ± 5 mm	50 pairs
260914	KRUTEX Vet-Gel surgical gloves, sterile, powder free	7.5	95 ± 5 mm	50 pairs
260915	KRUTEX Vet-Gel surgical gloves, sterile, powder free	8.0	102 ± 6 mm	50 pairs
260916	KRUTEX Vet-Gel surgical gloves, sterile, powder free	8.5	108 ± 6 mm	50 pairs
260917	KRUTEX Vet-Gel surgical gloves, sterile, powder free	9.0	114 ± 6 mm	50 pairs

*This Vet-Gel glove conforms to European Standards EN455 part 1, 2, 3 & 4 and conforms to AQL 1.5. CE marked for minimal risk.*

## KRUTEX Latex Surgical Gloves

The KRUTEX Latex Surgical Gloves are manufactured to the highest standards and provide you with an excellent surgical glove, which is less expensive than the KRUTEX Vet-Gel Glove.

### KRUTEX Latex Surgical Gloves, Sterile, Powdered

#### Features and Benefits

- Lightly powdered for excellent dry donning capabilities
- Micro-textured providing good grip for efficient instrument handling
- Hand specific with curved finger design for maximum dexterity
- Free of thiurams and thiazoles
- Low protein and UN-detectable chemical due to extensive leaching during manufacturing process
- Optimum thickness distribution for excellent tactile sensitivity
- Biodegradable, environmentally friendly
- Excellent viral barrier properties
- Packed in premium PET/PE film pouch for added protection
- Colour coded for easy recognition

For technical properties of the KRUTEX Surgical Gloves and quality tests performed, please refer to the Surgical Gloves technical specification guide on page 7.



Code	Description	Size	Palm width	Pack size
260971	KRUTEX latex surgical gloves, sterile, powdered	6.0	76±4 mm	50 pairs
260972	KRUTEX latex surgical gloves, sterile, powdered	6.5	86±4 mm	50 pairs
260973	KRUTEX latex surgical gloves, sterile, powdered	7.0	98±4 mm	50 pairs
260974	KRUTEX latex surgical gloves, sterile, powdered	7.5	107±4 mm	50 pairs
260975	KRUTEX latex surgical gloves, sterile, powdered	8.0	115±4 mm	50 pairs
260976	KRUTEX latex surgical gloves, sterile, powdered	8.5	122±4 mm	50 pairs

*This Surgical glove conforms to European Standards EN455 part 1, 2, 3 & 4 and conforms to AQL 1.5. CE marked for minimal risk.*

**KRUTEX Latex Surgical Gloves, Sterile, Powder Free**

**Features and Benefits**

- Powder-free for extra allergic protection
- Good dry donning capabilities
- Micro-textured providing good grip for efficient instrument handling
- Hand specific with curved finger design for maximum dexterity
- Free of thiurams and thiazoles
- Low protein and UN-detectable chemical due to extensive leaching during manufacturing process
- Optimum thickness distribution for excellent tactile sensitivity
- Biodegradable, environmentally friendly
- Excellent viral barrier properties
- Packed in premium PET/PE film pouch for added protection
- Colour coded for easy recognition

For technical properties of the KRUTEX Surgical Gloves and quality tests performed, please refer to the Surgical Gloves technical specification guide on page 7.



Code	Description	Size	Palm width	Pack size
260958	KRUTEX latex surgical gloves, sterile, powder free	5.5	72±4 mm	50 pairs
260961	KRUTEX latex surgical gloves, sterile, powder free	6.0	76±4 mm	50 pairs
260962	KRUTEX latex surgical gloves, sterile, powder free	6.5	86±4 mm	50 pairs
260963	KRUTEX latex surgical gloves, sterile, powder free	7.0	98±4 mm	50 pairs
260964	KRUTEX latex surgical gloves, sterile, powder free	7.5	107±4 mm	50 pairs
260965	KRUTEX latex surgical gloves, sterile, powder free	8.0	115±4 mm	50 pairs
260966	KRUTEX latex surgical gloves, sterile, powder free	8.5	122±4 mm	50 pairs
260967	KRUTEX latex surgical gloves, sterile, powder free	9.0	114±6 mm	50 pairs

*This Surgical glove conforms to European Standards EN455 part 1, 2, 3 & 4 and conforms to AQL 1.5. CE marked for minimal risk.*

## KRUTEX Polyisoprene Surgical Gloves

Sterile, latex free polyisoprene surgical gloves that minimize the risk of glove-related allergic reactions to latex protein, since they are made from a synthetic elastomer. The gloves have a fit, sensitivity and comfort, which correspond to natural latex rubber, synthetic polyisoprene as the molecular structure that can be assimilated to natural rubber latex. The gloves are designed so that they provide increased fingertip sensitivity.

Recommended for operations where the patient or clinicians are concerned about latex allergies.

### Features and benefits

- Closer to the natural latex feel
- Cuff strengthened by a rolled cuff
- Easy donning and removal
- Soft and textured surface
- Free of latex
- Free of thiurams and thiazoles
- Free of powder
- Packed in premium PET/PE film pouch for added protection
- Colour coded for easy recognition

**LATEX FREE**

For technical properties of the KRUTEX Vet-Gel Surgical Gloves and quality tests performed, please refer to the surgical gloves technical specification guide on page 7.



Code	Description	Size	Palm width	Pack size
260951	KRUTEX polyisoprene surgical gloves, sterile	6.0	73 ± 5 mm	25 pairs
260952	KRUTEX polyisoprene surgical gloves, sterile	6.5	77 ± 5 mm	25 pairs
260953	KRUTEX polyisoprene surgical gloves, sterile	7.0	89 ± 5 mm	25 pairs
260954	KRUTEX polyisoprene surgical gloves, sterile	7.5	95 ± 5 mm	25 pairs
260955	KRUTEX polyisoprene surgical gloves, sterile	8.0	102 ± 6 mm	25 pairs
260956	KRUTEX polyisoprene surgical gloves, sterile	8.5	108 ± 6 mm	25 pairs
260957	KRUTEX polyisoprene surgical gloves, sterile	9.0	114 ± 6 mm	25 pairs

*This Surgical glove conforms to European Standards EN455 part 1, 2 & 3 and conforms to AQL 1.5. CE marked for minimal risk.*

**VALUELINE Latex Surgical Gloves, Sterile, Powdered**

**Features and Benefits**

- Lightly powdered for excellent dry donning capabilities
- Hand specific with curved finger design for maximum dexterity
- Free of thiurams and thiazoles
- Low protein and UN-detectable chemical due to extensive leaching during manufacturing process
- Biodegradable, environmentally friendly
- Microtextured providing good grip for efficient instrument handling

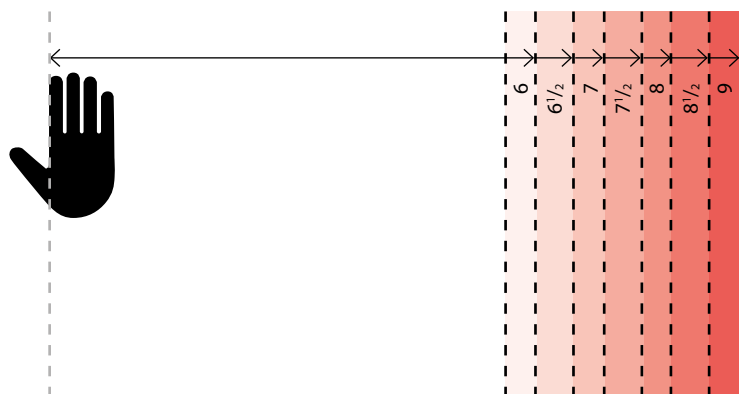
For technical properties of the Valueline Surgical Gloves and quality tests performed, please refer to the Surgical Gloves technical specification guide on page 7.

**ECONOMIC QUALITY**



Code	Description	Size	Palm width	Pack size
260981	VALUELINE latex surgical gloves, sterile, powdered	6.0	77 ± 5 mm	50 pairs
260982	VALUELINE latex surgical gloves, sterile, powdered	6.5	83 ± 5 mm	50 pairs
260983	VALUELINE latex surgical gloves, sterile, powdered	7.0	89 ± 5 mm	50 pairs
260984	VALUELINE latex surgical gloves, sterile, powdered	7.5	95 ± 5 mm	50 pairs
260985	VALUELINE latex surgical gloves, sterile, powdered	8.0	102 ± 5 mm	50 pairs
260986	VALUELINE latex surgical gloves, sterile, powdered	8.5	108 ± 5 mm	50 pairs

*This Surgical glove conforms to European Standards EN455 part 1, 2 & 3 and conforms to AQL 1.5. CE marked for minimal risk.*



### Measuring Chart for Surgical Gloves

#### Instructions

Size is indicated by the width of your hand just below your first knuckles. Place your right hand flat (palm down) on the guide with your fingers together and thumb spread. Your index finger should be flush against the heavy line, but not over it.

Quick Specification Guide	VALUELINE Surgical Gloves Powdered	KRUTEX Surgical Gloves Powdered	KRUTEX Surgical Gloves Powder free	KRUTEX Vet-Gel Surgical Gloves Powder free	KRUTEX Polyisoprene Surgical Gloves, Powder free
Powder free			✓	✓	✓
Length	> 280 mm	> 290 mm	> 290 mm	> 290 mm	
Cuff thickness	≥ 0.12mm	≥ 0.17mm	≥ 0.17mm	≥ 0.17mm	> 0.12 mm
Palm thickness	≥ 0.15mm	≥ 0.18	≥ 0.18	≥ 0.18	> 0.18 ± 0.02 mm
Finger thickness	≥ 0.17mm	≥ 0.21mm	≥ 0.21mm	≥ 0.21mm	> 0.20 ± 0.02 mm
Force at break unaged	9 Newton	12 Newton	12 Newton	12 Newton	9 Newton
Force at break aged	9 Newton	9 Newton	9 Newton	9 Newton	6 Newton
Modulus at 300%	N/A	N/A	1.51 at 300%	1.47 at 300%	<2 at 300%
Modulus at 500%	N/A	N/A	3.21 at 500%	2.91 at 500%	NIL at 500%
Elongation unaged	750%	750%	750%	750%	650%
Elongation aged	560%	560%	560%	560%	490%
Protein level (EN455-3)	< 200 ug/g	< 200 ug/g	< 50 ug/g	< 50 ug/g	NIL
Shelf life	5 years	5 years	3 years	3 years	5 years
<b>Testing</b>					
Chemical residue test		✓	✓	✓	
Endotoxin test		✓		✓	
Cytotoxicity test		✓	✓	✓	
Irritation test	✓	✓	✓	✓	✓
Powder residue test		✓	✓		
Protein extractable test		✓	✓	✓	
Sensitization test		✓	✓	✓	✓
Allergen (FITKit test)	✓	✓	✓	✓	
Sterilization	Gamma	Gamma	Gamma	Gamma	Gamma
Standard of conformity	EN455 1,2,3,4 ISO13485 Quality Management ISO14971 Risk Management ISO9001 Quality Management ISO10993 Biological Evaluation	EN 455 1, 2, 3 & 4 ISO 13485 Quality Management ISO 14971 Risk Management ISO 9001 Quality Management ISO 10993 Biological Evaluation	EN 455 1, 2, 3 & 4 ISO 13485 Quality Management ISO 14971 Risk Management ISO 9001 Quality Management ISO 10993 Biological Evaluation	EN 455 1, 2, 3 & 4 ISO 10993 Biological Evaluation ISO 14971 Risk Management ISO 9001 Quality Management ISO 10993 Biological Evaluation	EN 455 1, 2 & 3 ISO 13485 Quality Management ISO 14971 Risk Management ISO 9001 Quality Management ISO 10993 Biological Evaluation



### Examination Gloves

When choosing an examination glove, you have the choice of three glove films: Latex, Vinyl or Nitrile.

In veterinary practices we recommend the latex gloves, however, if you are allergic to latex we recommend the nitrile and if economy is your most important parameter, choose vinyl. Nitrile gloves have also become very popular as a milking glove in dairy farms due to its high strength. Powder free vinyl gloves are also very popular when collecting semen at boar stations.

Below chart rates the three types of glove films against the important parameters which you will evaluate when choosing a glove.

Glove type	Latex	Nitrile	Vinyl
Level of barrier protection	<b>Excellent</b> The longstanding benchmark for barrier protection due to its strength and elasticity.	<b>Excellent</b> Nitrile film is highly resistant to puncture and tears.	<b>Poor</b> Vinyl breaks and punctures easily during use and the fit around the wrist is poor.
Allergen content	<b>Varies</b> Latex contains protein and chemical allergens. Powder-free gloves are lower in allergens than powdered gloves.	<b>Very Good</b> Nitrile contains no latex proteins but contains some curing agents and other chemical ingredients.	<b>Good</b> Vinyl contains no latex proteins but contains some curing agents and other chemical ingredients.
Strength and durability	<b>Excellent</b> Natural rubber latex is very strong and durable with a very good tensile strength.	<b>Excellent</b> Nitrile film is extremely strong with puncture resistance superior to all glove films. With a very good tensile strength.	<b>Poor</b> Vinyl is the weakest of the four films and tends to break and puncture easily when stressed. With a poor tensile strength.
Elasticity	<b>Excellent</b> Latex elasticity is superior to the other glove films. Memory is very high allowing the film to always return to its original shape.	<b>Very Good</b> Nitrile elasticity is very good with elongation limits typically 500% or better. Nitrile exhibits some memory, allowing the film to adapt to the wearer's hand.	<b>Fair to Poor</b> Vinyl elasticity is limited and varies from brand to brand. The film exhibits limited memory.
Puncture resistance	<b>Very Good</b> Latex is very resistant to punctures but can be pierced by very sharp objects.	<b>Excellent</b> One of nitriles strong points. Puncture resistance is superior to all other medical glove films.	<b>Poor</b> Vinyl is easily punctured by sharp objects.
Fit and comfort	<b>Excellent</b> Latex provides excellent comfort and fit due to its high elasticity and memory.	<b>Very Good</b> Nitrile provides very good comfort and fits due to its high elasticity and memory. Due to a slightly tighter fit, users often choose a larger size.	<b>Fair</b> Low elasticity limits fit and comfort for many users. The wrist diameter is usually very large making the glove baggy around the cuff.
Chemical resistance	<b>Good</b> Provides good protection from most caustics and detergents. Also recommended by OSHA for cytotoxic drugs.	<b>Excellent</b> Nitrile exhibits excellent resistance to most chemicals especially harsh solvents.	<b>Poor</b> Offers very little protection. Vinyl is easily permeated by organic solvents.
Economy	<b>Very Good</b> Latex provides very good economy for general use. Powder free versions are more expensive than powdered.	<b>Good</b> Nitrile is more expensive than latex but can be justified when weighed against the cost of managing latex allergies.	<b>Excellent</b> Vinyl costs are typically similar to those of latex. Vinyl is a low-cost alternative to latex if latex allergies are a concern.
Recommended use	Recommended as the first choice for barrier protection in the healthcare environment except for users who are allergic to latex.	Recommended as a preferred alternative to latex. Also recommended for conditions where high strength and/or chemical protection is required.	Recommended as a low-cost alternative to latex for short procedures not involving blood or body fluids.



## KRUTEX Latex Examination Gloves, Powdered

### Features and Benefits

- Lightly powdered for easy donning and removal
- Smooth surface
- Extra thin for increased sensitivity and feel
- Free of thiurams and thiazoles
- Cuff strengthened by a rolled cuff
- Biodegradable, environmentally friendly
- Hot water leached
- Easy size recognition on box
- Colour coded for easy recognition

For technical properties of the KRUTEX Examination gloves and quality tests performed, please refer to the Examination Gloves technical specification guide on page 15.



Code	Description	Size	Palm width	Pack size
260761	KRUTEX examination gloves, latex, powdered	Small	85 ± 5 mm	100/pk
260762	KRUTEX examination gloves, latex, powdered	Medium	95 ± 5 mm	100/pk
260763	KRUTEX examination gloves, latex, powdered	Large	106 ± 5 mm	100/pk
260764	KRUTEX examination gloves, latex, powdered	X-large	116 ± 5 mm	100/pk

*This latex glove conforms to European Standards EN455 part 1, 2, 3 & 4 and conforms to AQL 1.5 CE marked for minimal risk.*

**KRUTEX Latex Examination Gloves, Powder free**

**Features and Benefits**

- Easy dry hand donning and removal
- Powder free for extra allergen protection
- Palm textured for good wet and dry grip properties
- Extra thin for increased sensitivity and feel
- Free of thiurams and thiazoles
- Cuff strengthened by a rolled cuff
- Biodegradable, environmentally friendly
- Hot water leached
- Single chlorination process
- Soft yet strong, well above minimum requirements
- Easy size recognition on box
- Colour coded for easy recognition

For technical properties of the KRUTEX Examination gloves and quality tests performed, please refer to the Examination Gloves technical specification guide on page 15.



Code	Description	Size	Palm width	Pack size
260758	KRUTEX examination gloves, latex, powder free	Small	84 ± 4 mm	100/pk
260759	KRUTEX examination gloves, latex, powder free	Medium	94 ± 4 mm	100/pk
260760	KRUTEX examination gloves, latex, powder free	Large	105 ± 4 mm	100/pk
260769	KRUTEX examination gloves, latex, powder free	X-large	114 ± 4 mm	100/pk

*This latex glove conforms to European Standards EN455 part 1, 2, 3 & 4 and conforms to AQL 1.5 CE marked for minimal risk.*

## KRUTEX Vinyl Examination Gloves, Powdered

### Features and Benefits

- Easy dry hand donning and removal
- Cuff strengthened by a rolled cuff
- Extra thin for increased sensitivity and feel
- Super stretchy (fatigue free)
- Free of latex
- Free of protein
- Super soft providing superior user comfort
- Easy size recognition on box
- Colour coded for easy recognition

For technical properties of the KRUTEX Examination gloves and quality tests performed, please refer to the Examination Gloves technical specification guide on page 15.



Code	Description	Size	Palm width	Pack size
260791	KRUTEX vinyl examination gloves, powdered	Small	85 ± 5 mm	100/pk
260792	KRUTEX vinyl examination gloves, powdered	Medium	95 ± 5 mm	100/pk
260793	KRUTEX vinyl examination gloves, powdered	Large	105 ± 5 mm	100/pk
260794	KRUTEX vinyl examination gloves, powdered	X-large	115 ± 5 mm	100/pk

This vinyl glove conforms to European Standards EN455 part 1, 2 & 3 and conforms to AQL 1.5. CE marked for minimal risk.

**KRUTEX Vinyl Examination Gloves, Powder free**

**Features and Benefits**

- Easy donning and removal
- Cuff strengthened by a rolled cuff
- Extra thin for increased sensitivity and feel
- Super stretchy (fatigue free)
- Free of latex
- Free of protein
- Powder free for extra allergen protection
- Super soft providing superior user comfort
- Easy size recognition on box
- Colour coded for easy recognition

For technical properties of the KRUTEX Examination gloves and quality tests performed, please refer to the Examination Gloves technical specification guide on page 15.



Code	Description	Size	Palm width	Pack size
260787	KRUTEX vinyl examination gloves, powder free	Small	85 ± 5 mm	100/pk
260788	KRUTEX vinyl examination gloves, powder free	Medium	95 ± 5 mm	100/pk
260789	KRUTEX vinyl examination gloves, powder free	Large	105 ± 5 mm	100/pk
260790	KRUTEX vinyl examination gloves, powder free	X-large	115 ± 5 mm	100/pk

*This vinyl glove conforms to European Standards EN455 part 1, 2 & 3 and conforms to AQL 1.5. CE marked for minimal risk.*

## KRUTEX Nitrile Examination Gloves, Powder Free

### Features and Benefits

- Easy donning and removal
- Cuff strengthened by a rolled cuff
- Micro textured providing good wet and dry grip properties
- Extra thin for increased sensitivity and feel
- Good viral barrier properties
- Latex like stretch and comfort
- Softer than standard nitrile and vinyl
- Free of latex
- Free of powder
- Free of protein
- Colour coded for easy recognition

For technical properties of the KRUTEX Examination gloves and quality tests performed, please refer to the Examination Gloves technical specification guide on page 15.



Code	Description	Size	Palm width	Pack size
261131	KRUTEX Nitrile examination gloves, powder-free	X-Small	≤80mm	100/pk
261132	KRUTEX Nitrile examination gloves, powder-free	Small	80 ± 10 mm	100/pk
261133	KRUTEX Nitrile examination gloves, powder-free	Medium	95 ± 10 mm	100/pk
261134	KRUTEX Nitrile examination gloves, powder-free	Large	110 ± 10 mm	100/pk
261135	KRUTEX Nitrile examination gloves, powder-free	X-large	115 ± 10 mm	100/pk

*This nitrile glove conforms to European Standards EN455 part 1, 2 & 3, EN374 part 2 & 3 and conforms to AQL 1.5 CE marked for minimal risk*

**KRUTEX Nitrile Milking Examination Gloves, Powder Free**

**Features and Benefits**

- Easy donning and removal
- Cuff strengthened by a rolled cuff
- Extra thin for increased sensitivity and feel
- Finger textured surface
- Free of latex
- Free of protein
- Free of powder
- Good fit, extra smooth, silky feel
- Latex like stretch and comfort
- Good viral barrier properties
- Polymer coated powder-free
- Colour coded for easy recognition

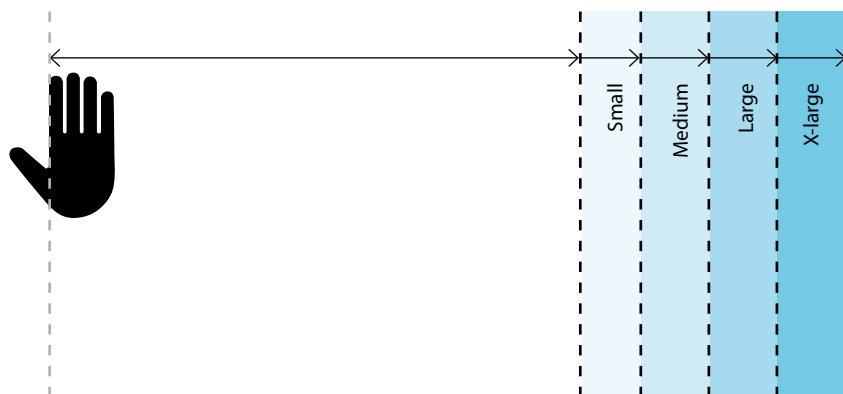


For technical properties of the KRUTEX Examination gloves and quality tests performed, please refer to the Examination Gloves technical specification guide on page 15.



Code	Description	Size	Palm width	Pack size
261136	KRUTEX Nitrile examination gloves, extra strong	Small	80 ± 10 mm	100/pk
261137	KRUTEX Nitrile examination gloves, extra strong	Medium	95 ± 10 mm	100/pk
261138	KRUTEX Nitrile examination gloves, extra strong	Large	110 ± 10 mm	100/pk
261139	KRUTEX Nitrile examination gloves, extra strong	X-large	115 ± 10 mm	100/pk
261141	KRUTEX Nitrile examination gloves, extra strong	XX-large	125 ± 10 mm	100/pk

*This nitrile glove conforms to European Standards EN455 part 1, 2 & 3, EN374 part 2 & 3 and conforms to AQL 1.5 CE marked for minimal risk*



Measuring chart for Examination gloves

**Instructions**

Size is indicated by the width of your hand just below your first knuckles. Place your right hand flat (palm down) on the guide with your fingers together and thumb spread. Your index finger should be flush against the heavy line, but not over it.

Quick Specification Guide	KRUTEX Latex Examination Gloves, Powdered	KRUTEX Latex Examination Gloves, Powder free	KRUTEX Vinyl Examination Gloves, Powdered	KRUTEX Vinyl Examination Gloves, Powder-free	KRUTEX Nitrile Milking Examination Gloves, Powder Free	KRUTEX Nitrile Examination Gloves, Powder free
Latex-free			✓	✓	✓	✓
Powder-free		✓		✓	✓	✓
Length	> 240 mm	> 240 mm	242 ± 2 mm	242 ± 2 mm	≥240 mm	≥240 mm
Thickness – cuff	≥ 0.08 mm	≥ 0.08 mm	≥ 0.06 mm	≥ 0.06 mm	0.07 ± 0.03 mm	0.08 ± 0.03 mm
Thickness – palm	≥ 0.08 mm	≥ 0.10 mm	≥ 0.08 mm	≥ 0.08 mm	0.08 ± 0.03 mm	0.09 ± 0.03 mm
Thickness – finger	≥ 0.08 mm	≥ 0.11 mm	≥ 0.08 mm	≥ 0.08 mm	0.12 ± 0.05 mm	0.13 ± 0.03 mm
Force at break un-aged	6 Newton	6 Newton	6 Newton	6 Newton	6 Newton	6 Newton
Force at break aged	6 Newton	6 Newton	6 Newton	6 Newton	6 Newton	6 Newton
Modulus at 300%	NIL at 300%	NIL at 300%	NIL at 300%	NIL at 300%	N/A	N/A
Modulus at 500%	5.5 at 500%	2.4 at 500%	N/A	N/A	N/A	N/A
Elongation unaged	700%	650%	300%	300%	500%	550%
Elongation aged	500%	500%	300%	300%	400%	450%
Protein level	< 200 ug/g	< 50 ug/g	NIL	NIL	NIL	NIL
Shelf life	5 years	3 years	5 years	5 years	5 years	5 years
<b>Testing</b>						
Chemical permeation test				✓	✓	✓
Chemical residue test	✓				✓	✓
Cytostatica test					✓	✓
Cytotoxicity test	✓			✓	✓	✓
Food safe test	✓	✓	✓	✓	✓	✓
Force break test		✓			✓	✓
Irritation test		✓			✓	✓
Powder residue test	✓				✓	✓
Allergen (FITKit test)	✓	✓			✓	✓
Protein t. extractable test	✓	✓			✓	✓
Sensitization test	✓	✓		✓	✓	✓
Skin irritation test	✓			✓	✓	✓
Viral penetration test	✓			✓	✓	✓
Microbiology test	✓				✓	✓
Watertight test		✓			✓	✓
Standard of conformity	EN 455 1,2,3&4 ISO 13485 Quality Management ISO 14971 Risk Management ISO 9001 Quality Management	EN 455 1,2,3&4 ISO 13485 Quality Management ISO 14971 Risk Management ISO 9001 Quality Management	EN 455 1,2 & 3 ISO 13485 Quality Management ISO 14971 Risk Management ISO 9001 Quality Management HACCP System Management	EN 455 1,2 & 3 ISO 13485 Quality Management ISO 14971 Risk Management ISO 9001 Quality Management HACCP System Management	EN 455 1,2&3 EN374 2 & 3 ISO 10993-5 Risk Management ISO 10993-10 Risk Management	EN 455 1,2&3 EN374 2 & 3 ISO 10993-5 Risk Management ISO 10993-10 Risk Management





## KRUTEX Arm Length Gloves

KRUTEX arm length gloves are used by veterinarians all over the world and are renowned for its extreme strength and very high sensibility.

We have gloves available in 5 different qualities dependent on the sensibility you need. The less sensibility the cheaper the glove. In addition to the traditional glove design we also offer the neck strap version, which has become increasingly popular as it, apart from holding the gloves in place, also gives added shoulder, armpit and chest protection for added hygiene.

All our arm length gloves are manufactured according to ISO 527-3 (film tensile test).

## KRUTEX Super Sensitive Examination Gloves

- Soft, smooth and strong
- High sensitivity
- Cut diagonally for better fit
- Made from 100% polyethylene
- 25 µm
- Sizes 90 cm or 97 cm long
- Size 90 cm also available with small hand
- Dispenser box of 100



Code	Description	Size	Pack size
260687	KRUTEX super sensitive examination gloves extra long, 97 cm	Large	100/pk
260693	KRUTEX super sensitive examination gloves, 90 cm	Small	100/pk
260700	KRUTEX super sensitive examination gloves, 90 cm	Large	100/pk

## KRUTEX Super Sensitive Examination Gloves With Neck Strap

- Designed with neck strap for secure fastening
- Designed to eliminate soiling of shoulder, chest and armpit area for extra hygiene
- Made from 100% polyethylene
- 25 µm
- 90 cm long (from fingertip to neck opening)
- Dispenser box of 50



Code	Description	Size	Pack size
260727	KRUTEX super sensitive protector examination gloves with neck strap	Small	50/pk
260726	KRUTEX super sensitive protector examination gloves with neck strap	Large	50/pk

**KRUTEX Super Touch Examination Gloves**

- Disposable arm length gloves
- Very high sensitivity
- Cut diagonally for better fit
- Made from 100% polyethylene
- 25 mμ
- 95 cm long
- Dispenser box of 100



Code	Description	Size	Pack size
260711	KRUTEX super touch examination gloves	Large	100/pk

**KRUTEX Super Touch Protector Examination Gloves With Neck Strap**

- Designed with neck strap for secure fastening
- Designed to eliminate soiling of shoulder, chest and armpit area for extra hygiene
- Made from 100% polyethylene
- 25 mμ
- 90 cm long (from fingertip to neck opening)
- Dispenser box of 50



Code	Description	Size	Pack size
260728	KRUTEX super touch protector examination gloves with neck strap	Small	50/pk
260725	KRUTEX super touch protector examination gloves with neck strap	Large	50/pk

### KRUTEX Soft Examination Gloves

- Disposable arm length gloves
- Soft and strong for multipurpose veterinary and AI use
- Cut diagonally for better fit
- Made from 100% polyethylene
- 25 µm
- 95 cm long
- Dispenser box of 100



Code	Description	Size	Pack size
260685	KRUTEX soft examination gloves	Large	100/pk

### KRUTEX Soft Examination Protector Gloves with Neck Strap

- Designed with neck strap for secure fastening
- Designed to eliminate soiling of shoulder, chest and armpit area for extra hygiene
- Made from 100% polyethylene
- 25 µm
- 90 cm long (from fingertip to neck opening)
- Dispenser box of 50



Code	Description	Size	Pack size
260724	KRUTEX soft examination protector gloves with neck strap	Large	50/pk

### KRUTEX Agro Examination Gloves

- Disposable arm length gloves
- Good sensitivity
- Cut diagonally for better fit
- Made from 100% polyethylene
- 20 µm
- 90 cm long
- Dispenser box of 100



Code	Description	Size	Pack size
260718	KRUTEX Agro examination gloves	Small	100/pk

### VALUELINE Examination Gloves

- A long, durable examination glove at an affordable price
- Generally used in cases where great sensitivity is not required
- Cut diagonally for better fit
- Made from 100% polyethylene
- 25 µm
- 95 cm long
- Dispenser box of 100



Code	Description	Size	Pack size
260690	VALUELINE examination gloves	Large	100/pk



### KRUTEX SonoSleeve Examination Glove

Specially developed 6 fingered glove with room for the linear, endorectal transducer in the 6<sup>th</sup> finger - all in one glove. This glove is ideal for rectal examination with ultrasound. A strong and smooth examination glove high sensitivity.

- Soft, smooth and strong
- High sensitivity
- Cut diagonally for better fit
- Made from 100% polyethylene
- 25 µm
- 90 cm long (from fingertip to neck opening)
- Dispenser box of 100



Code	Description	Size	Pack size
260706	KRUTEX SonoSleeve examination glove	Large	100/pk

### KRUTEX SonoSleeve Examination Glove with Shoulder Protector

Specially developed 6 fingered glove with room for the linear, endorectal transducer in the 6<sup>th</sup> finger - all in one glove. This glove is ideal for rectal examination with ultrasound. A strong and smooth examination glove ultra high sensitivity. Due to the shoulder protection shape, this glove is self-supporting and the shoulder is covered by the glove.

- Designed with neck strap for secure fastening
- Designed to eliminate soiling of shoulder, chest and armpit area for extra
- Made from 100% polyethylene
- 25 µm
- 90 cm long (from fingertip to neck opening)
- Dispenser box of 50



Code	Description	Size	Pack size
260707	KRUTEX SonoSleeve examination protector gloves with neck strap	Large	50/pk

## The Essential KRUUSE Veterinary Glove Handbook

The purpose of making this veterinary glove handbook is to provide veterinarians, vet nurses and animal health workers with an overview of all the gloves available and what one should bear in mind when choosing a glove.

When you are choosing a glove, the key reasons are:

- Protection
- Fit & Comfort
- Economy

The first and best line of defense against infections is intact skin.

Medical grade gloves if used appropriately will provide veterinarians, vet nurses and their patients with additional protection against blood-borne pathogens and other infectious diseases.

All KRUTEX gloves are made to maximum standards to reduce the risk of the proteins from the latex coming into contact with your skin. Our gloves undergo various hot water leaching processes to reduce the protein content and our premium glove, the Vet-Gel glove is also coated with polymer, which helps in binding the proteins in the latex.

## Glove Dictionary

In this handbook we have listed various properties of our gloves. Below please find an explanation of the importance of these.

### 1. Free of Thiurams and Thiazoles

Thiurams and thiazoles are commonly added into manufacturing of a synthetic and/or natural latex glove, it is acting as an accelerator to accelerate the sulphur vulcanization process. These can cause allergic reactions, so it is important your latex gloves are free of these.

### 2. Modulus, non fatigue

Is the amount of pressure that the stretched material exerts on the hand, referring at different times to the force required to reach a certain elongation, the amount of force required to move the hand in the glove, or in short, how stiff the material is. The lower the rate the more elastic and better the glove is.

### 3. Hot water leached

It is commonly used in the manufacturing of gloves to reduce protein content of a Natural Rubber Latex product and extracting excessive chemical residue. The more pre- and post-leaching processes incorporated in the manufacturing line, the better the glove is.

### 4. Elasticity

The ability of a material to spring back to its original size, shape and position after being stretched, flexed or squeezed. A related quality is "memory" which describes "recovery", or how often or quickly glove film will return to its original shape and adapt to the wearer's hand.

### 5. Elongation

Arguably a facet of elasticity, this is the measure of how far a glove can stretch before it breaks; this limit is quantified as the percentage of its length that the material can be stretched without breaking. For example, an elongation limit of 600% means that a given material can be stretched to six times its original size without breaking.

### 6. Tensile strength

This is a measure of the force required to break the glove, described in Newton. Tensile strength is central to durability of a glove and related to abrasion, tears and punctures.

### 7. Latex proteins

Lower levels of the latex proteins that cause latex allergy are believed to reduce the potential for latex sensitization. Manufacturers cannot make protein-level claims regarding their products without that a given protein content has been proven, and a manufacturer has demonstrated that his gloves consistently fall below that specific level of protein.

### 8. Polymer coated gloves

This system uses pre-dip and post-dip processes also eliminating the need for powder during manufacture. The post-dip acts as a damp-hand donning lubricant. The outside layer prevents the glove from sticking to one another, adds to a silky and moth grip. The coating reduces immigration of natural rubber latex proteins.

### 9. Powders

Used to "detackify" gloves, powders are not usually allergens in themselves, but they bind with the latex proteins that sometimes cause allergy. Powder shed from gloves, causing the proteins to be inhaled and come into contact with tissue other than that on the hand. Also on non-latex and latex gloves powder can cause irritation or dry skin, again a situation often confused with an allergic reaction. Keep in mind that disinfectants, soaps, and insufficient hand rinsing can cause skin irritations that may be blamed on gloves.

### 10. Allergens content

Latex proteins are the most notorious allergen in healthcare, but not the only one glove wearers need to consider. Curing agents and other residual chemicals used in the glove making process may cause reactions in individuals, though these incidents are seemingly unusual, difficult to trace and not yet studied. It is important to note that reaction to an irritant does not necessarily represent an allergy, as is often thought.

### The last word

Animal health workers that are allergic to latex and accelerators have had their livelihood threatened. Remember sensitivity to these allergens build up over time, so that reactions may occur many years into a person's career. For those workers, latex-free, accelerator free gloves could be the answer they have been waiting for.

By using this glove, sensitized animal health workers can remain in their chosen occupation without suffering from painful and debilitating allergies.







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