

# TouchNTuff®

ADVANCED PRODUCT & WORKER PROTECTION

## 93-300 / 93-700

Disposable Nitrile Glove  
for Controlled Environments

## Comfort and durability against punctures and tears

- Manufactured from nitrile, these gloves offer three times the puncture resistance of standard latex gloves.
- The unique formulation of TouchNTuff gloves provides the wearer with a high level of comfort and durability against puncture and tears.
- Made without natural rubber latex which may cause Type I skin allergies.
- TouchNTuff Nitrile is available in 2 versions:  
TouchNTuff® 93-300: Non-sterile version  
TouchNTuff® 93-700: Sterile version

### Industries

- Biotechnology
- Electronics
- Semiconductor
- Pharmaceutical
- "V" Blender to mix solids and colorants
- Assembly of white goods
- Maintaining equipment & instruments
- Organic and other material synthesis
- Preparing pharmaceutical products
- Product handling - chemical/biological
- Tablet press preparation and operation
- Analytical testing & measurements

### Applications (Non-sterile) - 93-300

- Acid Resistance
- Chemical handling
- Cytostatics handling
- Filtration processes
- Laboratory analysis
- Light assembly tasks
- Light duty maintenance

### Applications (Sterile) - 93-700

- Acid Resistance
- Chemical handling
- Filtration processes
- Laboratory analysis
- Light assembly tasks
- Light duty maintenance
- Pharmaceutical manufacturing



#### TECHNICAL DATA SHEET:

#### PRODUCT INFORMATION:

	93-300 (NON STERILE)	93-700 (STERILE)
<b>Material</b>	Nitrile	
<b>Color</b>	Color Teal Green	
<b>Glove Design</b>	Ambidexterous and Textured Fingers	
<b>Cuff</b>	Long, beaded	
<b>Sterilization</b>	Not Applicable	Gamma irradiation: sterility assurance level (Sal) 10 <sup>6</sup>
<b>Clean Room Compatibility</b>	Gloves are packed in a class 100 clean room environment, in a cleanroom-compatible packaging material, which is printed with IPA resistance ink. Customers need to make their own determination based on cleanliness standards. Recommended for Class 100 (ISO 5) areas. Grade A Clean Room Suitable.	
<b>Audit Standards</b>	Manufacturing Facility Registered to ISO 9001, ISO 13485 and ISO 14001	
<b>Performance Compliance</b>	Compliant with ASTM D 3577, Type II	
<b>Packaging</b>	50 gloves packed in a vacuum-sealed in an unprinted polybag, two bags of 50 gloves per master polybag. 10 master poly bags inside a poly case liner placed inside a shipper/carton. In total 1000 gloves per outer carton.	One pair per poly wallet, sealed in a poly envelope; 10 pairs per outer polybag; 5 sealed outer polybags per master polybag; 4 sealed master polybags per lined carton; 200 pairs per carton
<b>Storage</b>	Cool environment, shielded from ozone and UV light	
<b>Country of Origin</b>	Thailand	

#### PHYSICAL PROPERTIES:

PROPERTY	TYPICAL VALUES				TESTING METHOD
SIZE	S (6.5-7)	M (7.5-8)	L (8.5-9)	XL (9.5-10)	
Length (mm / inches)	300 / 11.8	300 / 11.8	300 / 11.8	300 / 11.8	ASTM D3767/EN 420
Average Palm Width (mm)	80	95	110	120	
Freedom from Holes (Inspection level I)	1.5 AQL				ASTM D5151/EN 374-2
Palm Thickness Single Wall	0.13530.015 mm / 5.3 mils				ASTM D3767/EN 420
Particulate Count	≤ 1200 Counts / cm <sup>2</sup>				IEST-RP-CC005.2-7
Endotoxin: Only for 93-700 (Sterile)	<10.4 EU/pair of gloves				ASTM D7102

	BEFORE AGING	AFTER AGING	
Ultimate Tensile Strength	≥ 14 MPa	≥ 14 MPa	ASTM D 412-06a
Elongation at Break	≥ 500%	≥ 400%	ASTM D 412-06a
Modulus @ 500% (MPa)	≤ 7	≤ 7	ASTM D 412-06a
Force at break (N)	≥ 9	≥ 9	EN 455-2

IONIC CONTENT	SPECIFICATION	IONIC CONTENT	SPECIFICATION
Chloride (Cl <sup>-</sup> )	<0.600 µg/cm <sup>2</sup>	Aluminium (Al <sup>3+</sup> )	<0.050 µg/cm <sup>2</sup>
Nitrate (NO <sub>3</sub> <sup>-</sup> )	<0.800 µg/cm <sup>2</sup>	Magnesium (Mg <sup>2+</sup> )	<0.050 µg/cm <sup>2</sup>
Sulphate (SO <sub>4</sub> <sup>2-</sup> )	<0.200 µg/cm <sup>2</sup>	Zinc (Zn <sup>2+</sup> )	<0.300 µg/cm <sup>2</sup>
Sodium (Na <sup>+</sup> )	<0.500 µg/cm <sup>2</sup>	Lithium (Li <sup>+</sup> )	< 0.0004 µg/cm <sup>2</sup>
Potassium (K <sup>+</sup> )	<0.050 µg/cm <sup>2</sup>	Copper (Cu <sup>2+</sup> )	<0.050 µg/cm <sup>2</sup>
Calcium (Ca <sup>2+</sup> )	<0.500 µg/cm <sup>2</sup>	Iron (Fe <sup>3+</sup> )	<0.050 µg/cm <sup>2</sup>

Test methods per IEST-RP-CC005.2 using an orbital shaker. ND=None Detected

#### ORDERING INFORMATION:

SIZE	6.5-7	7.5-8	8.5-9	9.5-10
TouchNTuff® 93-300	<b>VWR Catalog Number</b>	<b>10049-908</b>	<b>10049-913</b>	<b>10049-915</b>
	MANUFACTURER CAT NO.	556079	556080	556081
TouchNTuff® 93-700	<b>VWR Catalog Number</b>	<b>89402-740</b>	<b>89402-742</b>	<b>89402-744</b>
	MANUFACTURER CAT NO.	384230	384231	384232

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#### Performance Standards



#### Regulatory Compliance



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