

NORTH CONTROLLED ENVIRONMENT GLOVES

**CHLOROSULFONATED POLYETHYLENE (CSM)
NORTH - CSM SHORT GLOVEBOX GLOVES**

Last Updated – (December 2019)



PRODUCT DESCRIPTION			
PART #	SIZES	LENGTH (in)	CASE PACK
Y103	7,8,9,10 hand specific	14 (+/- 1)	1 pair per bag/ 1 bag per case
Y103A	7,8,9,10 ambidextrous	14 (+/- 1)	1 pair per bag/ 1 bag per case
Y154A	7,8,9,10 ambidextrous	14 (+/- 1)	1 pair per bag/ 1 bag per case
Y254A	7,8,9,10 ambidextrous	14 (+/- 1)	1 pair per bag/ 1 bag per case

GENERAL INFORMATION		DIMENSIONS	
Base Material:	CSM	Bead Diameter:	3.2 to 6.4 mm (0.125 to 0.25 in)
Material Color:	White	Cuff Diameter:	9.7 to 10.7cm (3.8 to 4.2 in)
Hand Style:	Ambidextrous	Film Thickness: (Y103, Y103A)	0.18 to 0.48 mm (0.007 to 0.019 in)
Cuff Style:	Rolled Bead	Film Thickness: (Y154A)	0.31 to 0.66 mm (0.012 to 0.026 in)
Country of Origin	United States	Film Thickness: (Y254A)	0.48 to 0.94 mm (0.019 to 0.037 in)

PRODUCT FEATURES

- Superior resistance to ozone and oxidizing chemicals such as alcohols, alkalis, and acids.
- Highly resistant to the effects of UV radiation in both artificial light and sunlight.
- Every glove is electrically tested to detect holes or thin spots, ensuring greater safety
- Very high abrasion resistance provides long glove service life.
- White surface will not hide contamination and is easily cleaned.
- For use with sleeves.

APPLICATIONS

Glove box operations in the pharmaceutical, biotechnical, semi-conductor, nuclear, defense, and manufacturing industries.



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NORTH® HAND PROTECTION – Technical Data Sheet

CERTIFICATIONS / STANDARDS

OSHA Standard - 29 CFR 1915.157 The employer shall ensure that each affected employee uses appropriate hand protection and other protective clothing where there is exposure to hazards such as skin absorption of harmful substances, severe cuts or lacerations, severe abrasions, punctures, chemical burns, thermal burns, harmful temperature extremes, and sharp objects.

	TEST METHOD	LEVEL	TEST RESULT
CE Certified EN420, EN388  3 0 1 1 X	EN388:2016		
	Abrasion	3	≥ 2,000 cycles
	Blade Cut	0	No Claim
	Tear	1	≥ 10 newtons
	Puncture	1	≥ 20 newtons
	TDM Cut	X	No Claim
CE Certified EN ISO 374:2016 Type A  AKLMNP	EN ISO 374-1:2016		Breakthrough Time
	Methanol	6	> 8 hrs
	Sodium Hydroxide (40%)	6	> 8 hrs
	Sulfuric Acid (96%)	6	> 8 hrs
	Nitric Acid (65%)	6	> 8 hrs
	Acetic Acid (99%)	6	> 8 hrs
	Hydrogen Peroxide (30%)	6	> 8 hrs
	EN ISO 374-5:2016		
	Resistance to Penetration	3	(Inspection level G1, AQL ≤ 0.65)
Physical Properties according to ASTM D412	Tensile Strength		13.1 Mpa (1900 psi) min
	Ultimate Elongation		500% min
	500% Tension Stress		17.2 Mpa (2500 psi) max

Honeywell Safety Products
 10 Thurber Blvd.
 Smithfield, RI 02917
 Tel: 800.430.5490

Canada
 Tel: 1.888.212.7233

www.honeywellsafety.com

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LAUNDERING / STORAGE:

Chemical resistant gloves are not designed for laundering.

Three year shelf life when stored in original packaging in a cool dry place away from light. Recommended temperature range: 50°F to 86°F (10°C to 30°C).



WARNINGS

*Extreme caution should be used around moving machinery.

**Cleaning gloves that have been in contact with toxic or corrosive chemicals may result in a chemical reaction, including fumes that could cause personal injury, serious illness, or death.

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