



**PROTECTIVE INDUSTRIAL PRODUCTS**

# 52-3665 Specification Sheet

## UNSUPPORTED NEOPRENE GLOVES

### PRODUCT DESCRIPTION:

Unsupported neoprene, 28 mil., flock lined, raised diamond grip, 12-inch length, dozen packed.

- Neoprene gloves provide superior protection from a wide range of chemicals such as acids, caustics, solvents and oils;
- Raised diamond grip;
- Flock lined;
- Silicone free.
- Made from component materials that comply with Federal regulations for food contact 21CFR, 170-199

### Applications:

Ideal for use in the petrochemical industry, janitorial and general maintenance and photo finishing.

### TECHNICAL DATA:

**Material:** Neoprene/rubber, cotton

**Color:** Black

**Cuff Style:** Straight cuff

**Available Sizes:** S - XL

**Packaging:** 12 per dozen; 12 dozen per case

**Case Dimensions (cm):** 37 x 29 x 36.8 / (in): 14.6 x 11.4 x 14.5

**Case Weight:** (S) 33.6 lbs / 15.2 kg (L) 34.2 lbs / 15.5 kg

(M) 33.6 lbs / 15.2 kg (XL) 34.8 lbs / 15.8 kg

**Manufacturer Certifications:** ISO9001:2000; ISO14001:2004 certified

**Country of Origin/Harmonization Code:** Malaysia/4015.19.1050



### DIMENSIONS:

Size Available	S	M	L	XL
Over Length (cm) $\pm 1$ cm -A (in)	32.0	32.0	32.0	32.0
Palm Width (cm) $\pm 1$ cm -B (in)	10.0	10.8	11.3	11.6
	3.9	4.3	4.4	4.6

Thickness 0.67 mm ( $\pm 0.05$ ) (25-28 mil)

### PERFORMANCE PROPERTIES:

EN388: 3121

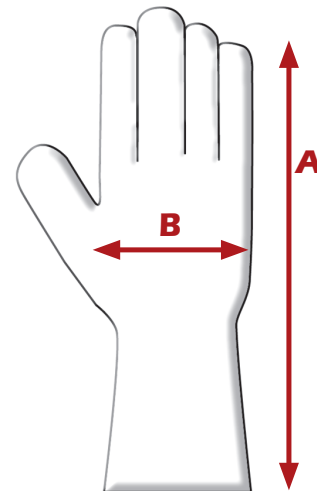
Abrasion = 3; Cut = 1; Tear = 2; Puncture = 1

### Elongation Information:

Before Aging		After Accelerated Aging	
Tensile Strength (minimum)	Elongation (minimum)	Tensile Strength (minimum)	Elongation (minimum)
(Mpa)	%	(Mpa)	%
15	600	10	500

### BARCODE # DOZEN CASE

52-3665/XL	01616314046031	02616314046030
52-3665/L	01616314046000	02616314046009
52-3665/M	01616314046017	02616314046016
52-3665/S	01616314046024	02616314046023



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### Permeation performance levels

Permeation defined - permeation is a process by which a chemical can pass through a protective barrier (e.g. glove) without going through visible openings, such as pores. Thus molecules of the chemical enter the barrier and "wriggle" through by passing between the molecules of the glove compound. In many cases the permeated material may appear unchanged to the human eye.

Permeation performance levels are assessed by measuring the time for a chemical to breakthrough the glove material. Samples, cut from the palms of the gloves are placed in a permeation cell which enables the chemical to be placed in contact with the outer surfaces of the gloves. Our CMIG laboratories are equipped with different measuring instruments to detect any chemical (e.g. solvents, acids, alkalis and salts) that has broken through to the inside surface of the glove sample.

The breakthrough time tests are carried out for up to eight hours, according to EN374.

Permeation performance level and breakthrough time

Level	x	0	1	2	3	4	5	6
Times	no test	< 10 mins	> 10 mins	> 30 mins	> 60 mins	> 120 mins	> 240 mins	> 480 mins

CHEMICAL	CAS #	PERMEATION BREAKTHROUGH	EN LEVEL
Acetone .....	67-64-1 .....	< 30 min .....	1
Benzene .....	71-43-2 .....	NR .....	0
Butadiene .....	106-99-0 .....	NT .....	0
Ethylene Oxide .....	75-21-8 .....	NT .....	0
Methanol .....	67-56-1 .....	< 91 min .....	3
Propylene Oxide .....	75-56-9 .....	< 18 min .....	1
Styrene .....	100-42-5 .....	< 16 min .....	1
THF .....	109-99-9 .....	NR .....	0

NR = Not Recommended

NT = Not Tested

*\* NOTE: This chemical resistant data is presented as a guide ONLY. This does not consider permeability of glove, chemical combinations, temperature, length of time that glove is in contact with the chemical and thickness of glove. These factors will alter or affect the performance of glove. Recommend actual on-the-job testing of glove.*

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