



SHIELD Scientific

compliance comfort protection

infoSHIELD™ LABORATORY

GLOVE CHEMICAL RESISTANCE GUIDE

Being compliant with the standards does not guarantee absolute protection because what is tested relates to the materials used, methods of manufacture, length and thickness of the glove, etc. In the table below you'll see the performance for three of our synthetic gloves based on EN 16523-1:2015. On paper they all comply with the same standards, but as you will notice they do not offer the same level of performance.

THE THICKER AND LONGER THE GLOVE, THE BETTER YOU WILL BE PROTECTED !

Chemical name	CAS n°	Concentration	SHIELDskin CHEM™ NEO NITRILE™ 300	SHIELDskin™ ORANGE NITRILE™ 260	ecoSHIELD™ Eco Nitrile PF 250
Thickness (Palm)			0.25 mm	0.14 mm	0.10 mm
Sodium acetate Sat. solution	127-09-3	100%	480 min	480 min	480 min
Acetic Acid	64-19-7	100%	90 min	7 min	4 min
Hydrochloric Acid	7647-01-0	37%	480 min	130 min	98 min
Formic Acid	64-18-6	98-100%	125 min	4 min	3 min
Acrylamide	79-06-1	40%	480 min	480 min	480 min
Secondary isoamyl alcohol 98%	598-75-4	98%	480 min	55 min	30 min
Ethidium Bromide	1239-45-8	5%	480 min	480 min	480 min
Chloroform	67-66-3	99.8%	4 min	0 min	0 min
Dimethyl Formamide (DMF)	68-12-2	99%	9 min	4 min	1 min
Dimethyl Sulfoxide (DMSO)	67-68-5	99%	179 min	48 min	10 min
Ethanol	64-17-5	100%	154 min	20 min	9 min
Formaldehyde	50-0-07	37%	480 min	480 min	480 min
Formamide	75-12-7	99%	123 min	97 min	9 min
Isobutanol	78-83-1	99%	480 min	76 min	39 min
Isopropanol	67-63-0	100%	480 min	46 min	33 min
Methanol	67-56-1	99.9%	54 min	5 min	0 min
Phenol	108-95-2	50%	163 min	23 min	15 min
Sodium Hydroxide	1310-73-2	50%	480 min	480 min	480 min
Tris (hydroxymethyl) aminomethane Sat. solution	77-86-1	100%	480 min	480 min	480 min
Xylene	1330-20-7	98.5%	8 min	4 min	2 min

DISCLAIMER: The data provided was based on gloves tested under laboratory conditions, in accordance with EN 16523-1:2015. The information is for guidance only and may not reflect the user's application. A risk assessment should always be made by purchaser to assess the suitability of gloves for a specific application.



twinSHIELD™ technology

- Double-layered = reduced risk of pinholes.
 - Stronger = better protection.
 - 2 colours: red, orange or green exterior to make it easier to select according to the risk and a soft and comfortable white interior.



EN 16523-1:2015 (supersedes EN 374-3:2003)

- Breakthrough occurs when a permeation rate of $1\mu\text{g}/\text{cm}^2/\text{min}$ is noted.
 - The test temperature is 23°C ($+/-1^\circ\text{C}$).
 - Test results must be within 20% of the mean average of the three glove samples tested. The lowest score is reported.

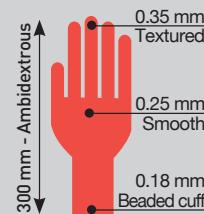
PPE CAT. III



www.shieldscientific.com
For more Chemical Resistance Data

SHIELDskin CHEM™ NEO NITRILE™ 300

Multi-polymer (polychloroprene + nitrile), twinSHIELD™ technology (double layers / bicoloured: red/white, virus and micro-organism resistant), free of Thiurams, non-sterile.

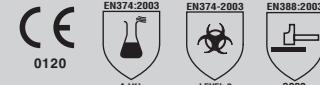


Red
Chemical risk

Size	XS/6	S/7	M/8	L/9	XL/10	XXL/11
Code	66 9251	66 9252	66 9253	66 9254	66 9255	66 9256

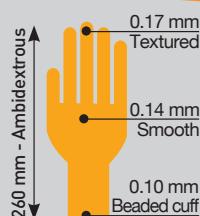
40 gloves/dispenser 10 dispensers/case

PPE CAT. III AQL 0.65



SHIELDskin™ ORANGE NITRILE™ 260

Multi-polymer (nitrile + polychloroprene), powder-free, twinSHIELD™ technology (double layers / bicoloured: orange/white), accelerator-free, virus and micro-organism resistant, non-sterile.



Size	XS/6	S/7	M/8	L/9	XL/10
Code	67 6231	67 6232	67 6233	67 6234	67 6235

90 gloves/dispenser 10 dispensers/case

PPE CAT. III

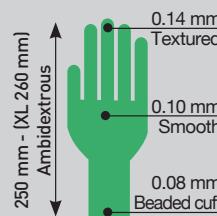
AQL 0.65



Orange
Biological risk

ecoSHIELD™ Eco Nitrile PF 250

100% nitrile, powder-free, twinSHIELD™ technology (double layers / bicoloured: green/white), free of Thiazoles & Thiurams, virus and micro-organism resistant, non-sterile.



Green
General risk

Size	XS/6	S/7	M/8	L/9	XL/10
Code	62 5121	62 5122	62 5123	62 5124	62 5125

150 gloves/dispenser 10 dispensers/case

PPE CAT. III AQL 0.65



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