SHIELD Scientific
compliance comfort protection

CHEMICAL RESISTANCE GUIDE

Level 0	Level 1	Level 2	Level 3	Level 4	Level 5	Level 6
<10 min	10 - 30 min	30 - 60 min	60 - 120 min	120 - 240 min	240 - 480 min	> 480 min

SHIELDskin* ORANGE NITRILE* 300

PPE Personal Protective Equipment Category III REGULATION (EU) 2016/425
MDD Medical Device Class I DIRECTIVE 93/42/EEC
CE 0598
ISO 374-1 Type B JKPT

- Category III PPE glove (Regulation (EU) 2016/425)
- Complex Design - For mortal and irreversible risks
- Class 1 MDD glove (Council Directive 93/42/EEC)
- Powder-free orange/white nitrile/polychloroprene glove
- twinSHIELD* double-walled protection
- Ambidextrous
- 300 mm / 0.14 mm (EN 420:2003+A1:2009)
- AQL 0.25 (EN 374-2:2014 Level 3)
- Biological risk (ISO 374-1:2016 VIRUS)
- Viral penetration test (ISO 16604:2004 Procedure B)
- Chemical risk (ISO 374-1:2016+A1:2018 - Type B JKPT)
- Waterproof and for low chemical protection
- Tested for chemical permeation (EN 16523-1:2015+A1:2018)

64-19-7 Acetic acid 99%	LEVEL 0 8 min
67-64-1 Acetone 99.8%	LEVEL 0 1 min
75-05-8 Acetonitrile 99.9%	LEVEL 0 1 min
10127-02-3 Acridine orange	LEVEL 6 480 min
79-06-1 Acrylamide 40%	LEVEL 6 480 min
79-10-7 Acrylic acid 99%	LEVEL 0 4 min
107-13-1 Acrylonitrile 99%	LEVEL 0 0 min

1336-21-6 Ammonium hydroxide 25%	LEVEL 2 33 min
62-53-3 Aniline 99.9%	LEVEL 1 14 min
Mixed Solution Aqua regia	LEVEL 6 480 min
Mixed Solution Bacillol AF	LEVEL 2 50 min
Mixed Solution Bacillol 30 Foam	LEVEL 3 73 min
100-51-6 Benzyl alcohol	LEVEL 1 11 min
7726-95-6 Bromine	LEVEL 0 6 min
79-08-3 Bromoacetic acid 7.5%	LEVEL 4 209 min
74-97-5 Bromochloromethane	LEVEL 3 79 min
71-36-3 Butanol 100%	LEVEL 2 47 min
111-76-2 2-Butoxyethanol 99%	LEVEL 1 23 min
97-88-1 Butyl methacrylate 99.9%	LEVEL 1 11 min
75-15-0 Carbon disulfide 99.9%	LEVEL 0 0 min
67-66-3 Chloroform 99.8%	LEVEL 0 0 min

77-92-9 Citric acid 30%	LEVEL 6 480 min
548-62-9 Crystal violet	LEVEL 6 480 min
110-82-7 Cyclohexane	LEVEL 6 480 min
108-94-1 Cyclohexanone 99%	LEVEL 0 6 min
66-81-9 Cycloheximide	LEVEL 6 480 min
91-95-2 Diaminobenzidine	LEVEL 6 480 min
107-06-2 1,2-Dichloroethane 99%	LEVEL 0 2 min
75-09-2 Dichloromethane 99%	LEVEL 0 0 min
109-89-7 Diethylamine 99.5%	LEVEL 0 1 min
60-29-7 Diethyl ether 99%	LEVEL 0 2 min
108-20-3 Diisopropyl ether 99%	LEVEL 1 16 min
127-19-5 Dimethyl acetamide 99%	LEVEL 1 10 min
68-12-2 Dimethyl formamide 99%	LEVEL 0 5 min
67-68-5 Dimethyl sulfoxide 99% (DMSO)	LEVEL 2 48 min

64-17-5
Ethanol 99.8%

LEVEL 1
22 min

64-17-5
Ethanol 70%

LEVEL 2
34 min

1239-45-8
Ethidium bromide 5%

LEVEL 6
480 min

141-78-6
Ethyl acetate 99.8%

LEVEL 0
1 min

107-21-1
Ethylene glycol

LEVEL 0
0 min

Mixed Solution
Euro 95 unleaded petrol

LEVEL 1
10 min

314-13-6
Evans blue

LEVEL 6
480 min

50-00-0
Formaldehyde 10%

LEVEL 6
480 min

50-00-0
Formaldehyde 37%

LEVEL 6
480 min

75-12-7
Formamide 99%

LEVEL 3
99 min

64-18-6
Formic acid 98.5%

LEVEL 0
4 min

111-30-8
Glutaraldehyde 25%

LEVEL 6
480 min

50-01-1
Guanidine hydrochloride

LEVEL 6
480 min

999-97-3
Hexamethyldisilizan 99%

LEVEL 6
480 min

Mixed Solution Hydranal ® -Composite 2	LEVEL 6 480 min
7803-57-8 Hydrazine monohydrate 80%	LEVEL 6 480 min
7803-57-8 Hydrazine monohydrate 98%	LEVEL 4 180 min
7647-01-0 Hydrochloric acid 37%	LEVEL 4 141 min
7664-39-3 Hydrofluoric acid 40%	LEVEL 1 14 min
7664-39-3 Hydrofluoric acid 48%	LEVEL 0 6 min
7722-84-1 Hydrogen peroxide 30%	LEVEL 6 480 min
7722-84-1 Hydrogen peroxide 12%	LEVEL 6 480 min
78-83-1 Isobutanol 99%	LEVEL 3 76 min
540-84-1 Iso-Octane 99%	LEVEL 6 480 min
67-63-0 Isopropanol 100%	LEVEL 2 54 min
67-63-0 Isopropanol 70%	LEVEL 3 72 min
67-63-0 Isopropanol 70% at 23°C	LEVEL 3 66 min
Mixed Solution LiPF6	LEVEL 6 480 min

7550-35-8 Lithium bromide 30%	LEVEL 6 480 min
108-39-4 m-Cresol 98.5%	LEVEL 2 59 min
60-24-2 2-Mercaptoethanol 99%	LEVEL 0 1 min
67-56-1 Methanol 99.9%	LEVEL 0 6 min
67-56-1 Methanol 20%	LEVEL 3 75 min
37143-54-7 1-Methoxy-2-propylamine 95%	LEVEL 0 3 min
108-87-2 Methylcyclohexane 99.9%	LEVEL 2 55 min
108-10-1 Methyl Isobutyl Ketone 99%	LEVEL 0 2 min
80-62-6 Methyl Methacrylate 99%	LEVEL 0 3 min
1634-04-4 Methyl Tert Butyl Esther (MTBE)	LEVEL 1 11 min
96-47-9 2-Methyltetrahydrofuran 99.9%	LEVEL 0 1 min
Mixed Solution Mucocit®-T branded mixture	LEVEL 6 480 min
Mixed Solution Neopredisan 135-1	LEVEL 1 20 min
142-82-5 n-Heptane 99%	LEVEL 3 91 min

110-54-3 n-Hexane 95%	LEVEL 3 97 min
54-11-5 Nicotine 98%	LEVEL 4 151 min
7697-37-2 Nitric Acid, 50%	LEVEL 3 63 min
7697-37-2 Nitric Acid 70%	LEVEL 0 5 min
872-50-4 N-methyl-2-pyrrolidone	LEVEL 2 32 min
109-66-0 n-Pentane 98%	LEVEL 2 56 min
71-23-8 n-Propanol	LEVEL 2 46 min
95-54-4 O-Phenylenediamine	LEVEL 5 308 min
79-21-0 Peracetic Acid 10%	LEVEL 4 160 min
64742-49-0 Petroleum benzene 80-100°C	LEVEL 6 480 min
108-95-2 Phenol 50%	LEVEL 1 24 min
108-95-2 Phenol 4%	LEVEL 1 22 min
108-95-2 Phenol aqueous solution 0.45%	LEVEL 6 480 min
Mixed Solution Phenol:Chloroform Isoamyl Alcohol 25:24:1	LEVEL 0 1 min

108-95-2 Phenol 0.1% solution	LEVEL 6 480 min
7664-38-2 Phosphoric Acid 30%	LEVEL 6 480 min
7664-38-2 Phosphoric acid 85%	LEVEL 6 480 min
3761-53-3 Ponceau 2R	LEVEL 6 480 min
6226-79-5 Ponceau S	LEVEL 6 480 min
1310-58-3 Potassium Hydroxide 40%	LEVEL 6 480 min
123-38-6 Propionaldehyde 97%	LEVEL 0 2 min
75-56-9 Propylene oxide 99%	LEVEL 0 0 min
110-86-1 Pyridine	LEVEL 0 1 min
598-75-4 Secondary isoamyl alcohol 98%	LEVEL 2 55 min
7761-88-8 Silver nitrate 15%	LEVEL 6 480 min
127-09-3 Sodium acetate Sat. solution	LEVEL 6 480 min
1310-73-2 Sodium Hydroxide 40%	LEVEL 6 480 min
1310-73-2 Sodium Hydroxide 50%	LEVEL 6 480 min

7681-52-9 Sodium Hypochlorite 13%	LEVEL 6 480 min
100-42-5 Styrene 99.9%	LEVEL 0 0 min
5329-14-6 Sulfamic Acid 15%	LEVEL 6 480 min
7664-93-9 Sulphuric Acid 10%	LEVEL 6 480 min
7664-93-9 Sulphuric Acid 95%-98%	LEVEL 0 8 min
7664-93-9 Sulphuric Acid 50%	LEVEL 6 480 min
127-18-4 Tetrachloroethylene 99%	LEVEL 0 5 min
109-99-9 Tetrahydrofuran 99.9%	LEVEL 0 0 min
75-59-2 Tetramethylammonium hydroxide 2.5%	LEVEL 6 480 min
108-88-3 Toluene 99.9%	LEVEL 0 1 min
584-84-9 Toluene diisocyanate 95%	LEVEL 0 0 min
76-03-9 Trichloroacetic acid 10%	LEVEL 6 480 min
121-44-8 Triethylamine 99%	LEVEL 2 36 min
76-05-1 Trifluoroacetic acid 99%	LEVEL 0 1 min

95-63-6 1,2,4- Trimethylbenzene 98%	LEVEL 1 13 min
108-67-8 1,3,5-Trimethylbenzene 98%	LEVEL 1 10 min
77-86-1 Tris (hydroxymethyl) aminomethane Sat. solution	LEVEL 6 480 min
72-57-1 Trypan blue	LEVEL 6 480 min
1330-20-7 Xylene 98.5%	LEVEL 0 4 min

DISCLAIMER: The data provided was based on gloves tested under laboratory conditions, in accordance with EN 16523-1:2015 (formerly EN 374-3:2003) and EN 374-4:2013. 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.