

# KIMTECH SCIENCE\* PURPLE NITRILE XTRA Gloves Chemical Permeation Data

Chemical Agent & Concentration	Level of Protection	Breakthrough Time	CAS Number
1-butanol, 99%	Splash Protection	50	71-36-3
Acetic Acid, 10%	High Protection	>480	64-19-7
Acetic Acid, 100%	Not Recommended	8	64-19-7
Acetone, 99%	Not Recommended	< 5	67-64-1
Acetonitrile, 5%	High Protection	>480	75-05-8
Acetonitrile, 99%	Not Recommended	< 5	75-05-8
Acrylamide, 40%	High Protection	>480	79-06-1
Ammonium Hydroxide, 25%	Medium Protection	80	1336-21-6
Carbon Disulphide, 99%	N/A	Immediate	75-15-0
Cellulose Thinner, 100%	N/A	1.6	N/A
Chloroform, 99%	Not Recommended	< 5	67-66-3
Citric Acid Monohydrate, 30%	High Protection	>480	5949-29-1
Citric Acid, 30%	High Protection	>480	77-92-9
Cyclohexane, 99%	High Protection	>480	110-82-7
Dichloromethane, 99%	Not Recommended	< 5	75-09-2
Diethyl Ether, 100%	Not Recommended	< 5	60-29-7
Dimethyl Formamide, 99%	Not Recommended	< 5	68-12-2
Dimethyl Sulphate, 98%	Splash Protection	29	77-78-01
Dimethyl Sulphoxide, 99%	Splash Protection	57	67-68-5

Divinyl Sulfone, 99%	Splash Protection	23	77-77-0
Eccobond E3508 MOD 3 Epoxy Adhesive, 100%	High Protection	>480	N/A
Epichlorohydrin, 99%	N/A	Immediate	106-89-8
Epoxy adhesive EP46HT-2MED Part A mixed with Part B, 100%	High Protection	>480	N/A
Ethanol, 70%	Splash Protection	59	64-17-5
Ethanol, 99%	Splash Protection	22	64-17-5
Ethidium Bromide, 1%	High Protection	>480	1239-45-8
Ethyl Acetate, 100%	Not Recommended	< 5	141-78-6
Formaldehyde, 37%	High Protection	>480	50-00-0
Friction, 2.5%	High Protection	>480	N/A
Friction, 5%	High Protection	>480	N/A
Glutaraldehyde, 50%	High Protection	>480	111-30-8
Glycerol, 85%	High Protection	>480	56-81-5
Hydrazine Monohydrate, 55%	High Protection	>480	7803-57-8
Hydrazine Monohydrate, 98%	High Protection	242	7803-57-8
Hydrochloric Acid, 0.4%	High Protection	>480	7647-01-0
Hydrochloric Acid, 18%	High Protection	>480	7647-01-0
Hydrochloric Acid, 30%	High Protection	>480	7647-01-0
Hydrochloric Acid, 37%	Medium Protection	173	7647-01-0
Hydrochloric Acid, 5%	High Protection	>480	7647-01-0

Hydrofluoric Acid, 40%	Splash Protection	15	7664-39-3
Hydrogen Peroxide, 30%	High Protection	>480	7722-84-1
Incidin Extra, 100%	High Protection	>480	N/A
Iron (III) Chloride, 40%	High Protection	>480	7705-08-0
Isopropanol, 70%	Medium Protection	144	67-63-0
Isopropanol, 99%	Medium Protection	70	67-63-0
Methanol, 100%	Not Recommended	6	67-56-1
Methanol, 99%	Not Recommended	7	67-56-1
n,n-diisopropylcarbodiimide, 100%	Not Recommended	6	693-13-0
Nicotine, 98%	Medium Protection	71	54-11-5
Nitric Acid, 50%	Splash Protection	60	7697-37-2
Nitric Acid, 70%	Not Recommended	9	7697-37-2
Oceanic HW540, 100%	High Protection	>480	N/A
Perchloric Acid, 70%	High Protection	>480	7601-90-3
Phosphoric Acid, 30%	High Protection	>480	7664-38-2
Phosphoric Acid, 85%	High Protection	>480	7664-38-2
Potassium Hydroxide, 40%	High Protection	>480	1310-58-3
Sekusept Plus, 100%	High Protection	>480	N/A
Sodium Hydroxide, 2%	High Protection	>480	1310-73-2
Sodium Hydroxide, 40%	High Protection	>480	1310-73-2
Sodium Hydroxide, 50%	High Protection	>480	1310-73-2

Sodium Hypochlorite, 13%	High Protection	>480	7681-52-9
Sodium Hypochlorite, 14%	High Protection	>480	7681-52-9
Sulphuric Acid, 37%	High Protection	>480	7664-93-9
Sulphuric Acid, 5%	High Protection	>480	7664-93-9
Sulphuric Acid, 50%	High Protection	>480	7664-93-9
Sulphuric Acid, 95%	Splash Protection	10	7664-93-9
Syntilo 2000, 100%	High Protection	>480	N/A
Terralin, 100%	High Protection	>480	N/A
Tetrachloroethylene, 100%	Not Recommended	6	127-18-4
Tetrahydrofuran, 99%	Not Recommended	< 5	109-99-9
Therm Cure™ 4010 Adhesive, 100%	High Protection	>480	N/A
Thiopene, 100%	Not Recommended	< 5	110-02-1
Thiopene, 99%	Not Recommended	< 5	110-02-1
Toluene, 99%	Not Recommended	< 5	108-88-3
Triethylamine, 99%	Splash Protection	19	121-44-8
Xylene, 98%	Not Recommended	< 5	1330-20-7

### EN374-3:2003 Permeation breakthrough times - Minutes

<b>Class</b>	Unclassified	1	2	3	4	5	6
<b>Time</b>	< 10	10-30	30-60	60-120	120-140	240-480	> 480
<b>Usage</b>	Not Recommended	Splash Protection		Medium Protection		High Protection	

**Disclaimer**

All data given are based on results of tests performed in accordance with EN374-3:2003, by an independent laboratory which has approval from a notified body under the CE Directives for Personal Protective Equipment. The setests may not adequately replicate any specific condition of use, and because KIMBERLY-CLARK PROFESSIONAL has no detailed know ledge or control over the conditions of end use, any of these data must be advisory only, and KIMBERLY-CLARK PROFESSIONAL\* must decline any liability.