Chemical resistance guide

8324 // INDIGO WAVE	
Material:	Nitrile, dark blue
Coating:	-
Size(s):	XS-XL
Packaging unit:	10 piece(s)
Certification:	EN ISO 374

Description

NITRAS INDIGO WAVE, nitrile disposable gloves, dark blue (colour code: 2400), non-sterile, rolled edge, powder-free, manufactured according to EN 455, ambidextrous (left and right hand), medical gloves, micro-roughened fingertips, colour code system for sizes, AQL 1,5, protection against micro-organisms, bacteria and viruses, box per 100 pieces

Thickness (approx.)	mm
Finger	0.00
Palm	0.00
Cuff	-

Chemical	CAS number	Aggregate state	Permeation time
(2-Hydroxyethyl) methacrylate		liquid	10
1,1,1-trichloroethane	71-55-6	liquid	0
1,1,1-Trichloroethane (methyl chloroform)	71-55-6	liquid	0
1,1-Dichloroethane	75-34-3	liquid	0
1,2,3-trichloropropane	96-18-4	liquid	0
1,2,3-trimethylbenzene	526-73-8	liquid	0
1,2,4-trimethylbenzene	95-63-6	liquid	0
1,2-dichlorobenzene	95-50-1	liquid	0
1,2-dichloroethane	107-06-2	liquid	0
1,2-Phenylenediamine	95-54-5	liquid	45
1,2-Propanediol	57-55-6	liquid	>480
1,2-Propanediol (for synthesis)	57-55-6	liquid	>480
1,4-dichlorobenzene	106-46-7	liquid	0
1,4-dioxane	123-91-1	liquid	0
1,6-Hexamethylene diisocyanate (HDI)	822-06-0	liquid	10
1-Amino-2-hydroxynaphthalene-4-sulfonic acid (for phosphate determination)	116-63-2	solid	>480
1-Bromonaphthalene	90-11-9	liquid	0
1-Butoxy-2-propanol	5131-66-8	liquid	35
1-chloronaftalene	90-13-1	liquid	0
1-Methoxy-2-Propanol	107-98-2	liquid	0
1-Methoxy-2-propyl acetate	108-65-6	liquid	4
1-Methoxypropan-2-ol	107-98-2	liquid	0
1-methyl-2-pyrrolidone	872-50-4	liquid	0

1-Naphthylamin	134-32-7	solid	>480
2,4-dinitrophenylhydrazine	119-26-6	solid	>480
2-Butanone (MEK)	78-93-3	liquid	0
2-Butoxyethanol	111-76-2	liquid	30
2-Butoxyethyl acetate	112-07-2	liquid	4
2-Ethoxyethanol	110-80-5	liquid	4
2-Ethoxyethyl acetate	111-15-9	liquid	7
2-Ethylhexyl acrylate	103-11-7	liquid	10
2-Hexanol	626-93-7	liquid	40
2-Hydroxyethyl methacrylate	868-77-9	liquid	10
2-Mercaptoethanol	60-24-2	liquid	10
2-Methoxy-1-methylethyl acetate	108-65-6	liquid	0
2-Methoxyethanol	109-86-4	liquid	10
2-Methoxyethyl acetate	110-49-6	liquid	4
2-Phenoxyethanol	2386-54-2	solid	>480
4-methylpentan-2-one	108-10-1	liquid	0
4-tert-butylphenol (p-tert-butylphenol / ptBP)	98-54-4	liquid	0
ACIDO NITRICO TECNICO	7697-37-2	liquid	0
Acetaldehyde	75-07-0	liquid	0
Acetone	67-64-1	liquid	0
Acetonitril	75-05-8	liquid	0
Acetonitrile 20%	75-05-8	liquid	7
Acetonitrile 30%	75-05-8	liquid	5
Acetonitrile 50%	75-05-8	liquid	0
Acetonitrile 70%	75-05-8	liquid	0
Acrylonitrile	107-13-1	liquid	30
Battery acid (25% sulphuric acid)	7664-93-9	liquid	>480
Waste oil		liquid	30
Aluminum	7429-90-5	solid	240
Aluminium-silicon powder	11145-27-0	solid	>480
Aluminium oxide (alumina)	1344-28-1	liquid	>480
Aluminium powder	7429-90-5	solid	>480
Aluminium sulfate	16828-12-9	solid	>480
Formic acid 10%	64-18-6	liquid	>480
Formic acid 50%	64-18-6	liquid	10
Formic acid 90%	64-18-6	liquid	0
Amidosulfonic acid	5329-14-6	solid	>480
Ammonia	7664-41-7	gaseous	0
Ammonia (gas)	7664-41-7	gaseous	0
Ammonia (anhydrous)	7664-41-7	gaseous	0
Ammonia 10%	1336-21-6	liquid	>480
Ammonia hydroxide 25%	1336-21-6	liquid	10
Ammonia solution 1%	1336-21-6	liquid	>480
Ammonia solution 5%	1336-21-6	liquid	>480
Ammonium persulfate 10%	7727-54-0	liquid	>480
Ammonium persulfate 100%	7727-54-0	solid	>480
Ammonium acetate	631-61-8	solid	>480
Ammonium carbamate (for analysis)	1111-78-0	solid	>480
Ammonium carbonate	10361-29-2	solid	>480
Ammonium chloride	12125-02-9	solid	>480
Ammonium fluoride	12125-01-8	liquid	>480
Ammonium heptamolybdate tetrahydrate	12054-85-2	solid	>480

Ammonium heptamolybdate tetrahydrate (for analysis)	12054-85-2	solid	>480
Ammonium hydrogen citrate (for analysis)	3012-65-5	solid	>480
Ammonium metavanadate	7803-55-6	solid	>480
Ammonium monochloroacetate	15455-96-6	solid	>480
Ammonium monovanadate (for analysis)	7803-55-6	solid	>480
Ammonium nitrate	6484-52-2	liquid	>480
Ammonium oxalate	1113-38-8	solid	>480
Ammonium oxalate monohydrate (for analysis)	6009-70-7	solid	>480
Ammonium sulfamate (for analysis)	7773-06-0	solid	>480
Ammonium sulfate (for analysis)	7783-20-2	solid	>480
Ammonium sulfide	12135-76-1	liquid	>480
Ammonium tartrate (for analysis)	3164-29-2	solid	>480
Ammonium thiocyanate (for analysis)	1762-95-4	solid	>480
Ammonium thiosulfate	7783-18-8	solid	>480
Amyl acetate	628-63-7	liquid	0
Amyl alcohol 99%	71-41-0	liquid	120
Aniline	62-53-3	liquid	0
Antimony(III) chloride (for analysis)	10025-91-9	solid	>480
Antimony(III) oxide	1309-64-4	solid	>480
Antimony pentachloride	7647-18-9	liquid	>480
BAYDUR PUL 20PL10	25791-96-2; 26401-97-8	liquid	120
Barium chloride	10361-37-2	solid	>480
Barium chloride dihydrate	10326-27-9	solid	>480
Barium chloride dihydrate (for analysis)	10326-27-9	solid	>480
Barium chloride dihydrate solution (10% in water)	10326-27-9, 7732-18-5	liquid	>480
Barium hydroxide octahydrate (for analysis)	12230-71-6	solid	>480
Barium nitrate (for analysis)	10022-31-8	solid	>480
Barium sulfate (chemically pure)	7727-43-7	solid	>480
Gasoline / premium gasoline		liquid	10
Gasoline 80/110 (pure)	64742-49-0, 110-54-3	liquid	30
benzene	71-43-2	liquid	0
Benzyl alcohol	100-51-6	liquid	5
Benzyl butyl phthalate	85-68-7	liquid	240
Benzyl nicotinate		solid	>480
Lead	7439-92-1	liquid	240
Butan-1-ol (1-butanol)	71-36-3	liquid	30
Butanone 10%	78-93-3	liquid	0
Butyl acetate	123-86-4	liquid	0
Butylamine	109-73-9	liquid	0
Butyldiglycol	112-34-5	liquid	240
Butyl glycol	111-76-2	liquid	240
Butyl glycol acetate	112-07-2	liquid	0
Butylhydroxytoluene	128-37-0	liquid	0
Butyl methyl ether	1634-04-4	liquid	0
CLORETO FERRICO 40%	7705-08-0	liquid	>480
Calcium chloride	10043-52-4	liquid	>480
Calcium chloride solution 33/35%	10043-52-4	liquid	>480
Calcium chloride lye 34%	10043-52-4	liquid	>480
Calcium fluoride (precipitated, pure)	7789-75-5	liquid	>480

Chemflake Special	100-42-5; 79-41-4; 75-57-0; 123-31-9	liquid	5
Chlorobenzene	108-90-7	liquid	0
Chlorinated biphenyls	1336-36-3	liquid	0
Chloroform	67-66-3	liquid	0
Chromic acid 50%	7738-94-5	liquid	5
Chromium trioxide (> 10% to < 25% in water)	1333-82-0	liquid	10
Cumene (isopropylbenzene)	98-82-8	liquid	0
Cyclohexane	110-82-7	liquid	10
DESMODUR PUL 10PL01	9016-87-9	liquid	30
Dibutylamine	111-92-2	liquid	0
Dibutyl phthalate 99%	84-74-2	liquid	>480
Dichloroacetamide	79-07-2	solid	0
Dichloroacetyl chloride	79-04-9	liquid	0
Dichloroacetyl chloride 97% (DCAC)	79-04-9	liquid	0
Dichlorodifluoromethane (R12)	75-71-8	gaseous	0
Dichloroacetic acid	79-43-6	liquid	0
Dichloroacetic acid ethyl ester	105-39-5	liquid	0
Dichloroacetate methyl ester	116-54-1	liquid	0
Dichloromethane	75-09-2	liquid	0
Diesel fuel	68476-34-6	liquid	30
Diethanolamine (for analysis)	111-42-2	liquid	10
Diethylamine	109-89-7	liquid	0
Diethylene glycol	111-46-6	liquid	>480
Diethylene glycol dimethyl ether	111-96-6	liquid	0
Diethyl ether	60-29-7	liquid	0
Diethyl ketone	96-22-0	liquid	0
Diisobutyl ketone	108-83-8	liquid	7
Dimethyl ether	115-10-6	liquid	0
Dimethylformamide	68-12-2	liquid	0
Dimethyl sulfate	77-78-1	liquid	0
Dimethyl sulfoxide	67-68-5	liquid	10
Disodium metasilicate pentahydrate	10213-79-3	solid	>480
Dioctyl adipate	123-79-5	liquid	30
Iron(III) chloride solution	7705-08-0	liquid	>480
Acetic acid 1 M	64-19-7	liquid	>480
Acetic acid 10%	64-19-7	liquid	>480
Acetic acid 100% (anhydrous)	64-19-7	liquid	0
Acetic acid 50%	64-19-7	liquid	30
Acetic acid 80%	64-19-7	liquid	5
Acetic acid 90%	64-19-7	liquid	4
Acetic acid 99%	64-19-7	liquid	4
Acetic acid conc. (glacial acetic acid)	64-19-7	liquid	0
Acetic anhydride	108-24-7	liquid	5
Ethanol (concentrated)	64-17-5	liquid	15
Ethanol 35%	64-17-5	liquid	40
Ethanol 50%	64-17-5	liquid	35
Ethanol 641 (96%, denatured with 1% 2-butanone)	64-17-5, 7732-18-5, 78-93-3	liquid	15
Ethanol 70%	64-17-5	liquid	35

Ethanol 80%	64-17-5	liquid	15
Ethanol 96% (denatured with 1% MEK)	64-17-5, 78-93-3	liquid	15
Ethanolamine 10-15%	141-43-5	liquid	60
Ethanolamine	141-43-5	liquid	10
Ethidium bromide 1%	1239-45-8	liquid	>480
Ethidium bromide 5%	1239-45-8	liquid	>480
Ethyl acetate	141-78-6	liquid	0
Ethyl acrylate	140-88-5	liquid	0
Ethylbenzene	100-41-4	liquid	0
Ethylene glycol	111-90-0	liquid	>480
Exxsol D30	64742-48-9	liquid	30
Hydrofluoric acid 0.1-1%	7664-39-3	liquid	>480
Hydrofluoric acid 10%	7664-39-3	liquid	60
Hydrofluoric acid 15%	7664-39-3	liquid	30
Hydrofluoric acid 20%	7664-39-3	liquid	30
Hydrofluoric acid 37%	7664-39-3	liquid	10
Hydrofluoric acid 40%	7664-39-3	liquid	15
Hydrofluoric acid 48%	7664-39-3	liquid	10
Hydrofluoric acid 75%	7664-39-3	liquid	0
Formaldehyde 10%	50-00-0	liquid	>480
Formaldehyde 25%	50-00-0	liquid	>480
Formaldehyde 35%	50-00-0	liquid	>480
Formaldehyde 37%	50-00-0	liquid	>480
Formaldehyde 4%	50-00-0	liquid	>480
Formalin 10%	82115-62-6	liquid	>480
Formalin 20%	82115-62-6	liquid	>480
Formalin 30%	82115-62-6	liquid	120
Glycerine	56-81-5	liquid	>480
HEMPEL'S CURING AGENT 98930	28182-81-2 ; 108-10-1; 123-86-4; 64742-95-6; 4083-64-1	liquid	20
Halothane (2-bromo-2-chloro-1,1,1-trifluoroethane)	151-67-7	liquid	0
Heating oil	93821-66-0	liquid	10
Hempaprime Multi 500 Base	1675-54-3; 13463-67-7; 68609-97-2; 68512-30-1; 71-36-3; 100-41-4	liquid	5
Hempatex HI-Build 46330	128601-23-0; 1330-20-7; 85535-85-9; 123-86-4; 13463-67-7; 100-41-4; 64742-82-1; 108-88-3	liquid	10

Hempathane 55939 Base	13463-67-7; 123-86-4; 108-65-6; 1330-20-7; 123-42-2	liquid	5
Hempels Curing Agent 95090	1330-20-7; 90-72-2; 71-36-3; 100-41-4; 112-24-3	liquid	10
Heptadecafluorooctane-1-sulfonic acid (perfluorooctanesulfonic acid) and its salts	1763-23-1	solid	>480
Hexachlorobenzene	118-74-1	liquid	0
Hexamethylene diisocyanate	822-06-0	liquid	10
Hexane (n-hexane)	110-54-3	liquid	35
IPOCLORIX PWG	7681-52-9	solid	>480
Isooctane	540-84-1	liquid	70
Isopropanol / 2-propanol	67-63-0	liquid	35
Isopropanol 40%	67-63-0	liquid	55
Isopropanol 60%	67-63-0	liquid	45
Isopropanol 70%	67-63-0	liquid	40
Isopropanol 80%	67-63-0	liquid	35
KEMIRA PAX 18	1327-41-9	liquid	30
Potassium hydroxide 10%	1310-58-3	liquid	>480
Potassium hydroxide saturated	1310-58-3	liquid	>480
Potassium disulphite ≥ 96%	16731-55-8	liquid	>480
Carbon disulfide (carbon disulfide, carbon disulfide)	75-15-0	liquid	0
Carbon monoxide	630-08-0	gaseous	0
Carbon tetrachloride (tetrachloromethane)	56-23-5	liquid	0
Lindane (γ-1,2,3,4,5,6-hexa-chlorocyclohexane)	58-89-9	solid	>480
Methanol	67-56-1	liquid	4
Methyl acetate	79-20-9	liquid	0
Methyl ethyl ketone (MEK)	123-91-1	liquid	0
Lactic acid (Kwas mlekowy Purac PF90)	79-33-4	liquid	120
Engine oil	8042-47-5	liquid	30
N,N-Dimethylacetamide	127-19-5	liquid	0
N,N-Dimethylformamide (dimethylformamide)	68-12-2	liquid	0
N-methyl-2-pyrrolidone	872-50-4	liquid	8
NOVAGUARD 890 BASE WHITE	9003-36-5; 30499-70-8; 100-51-6; 28064-14-4;	liquid	30
NOVAGUARD 890 HARDENER GREEN	6864-37-5; 100-51-6; 1760-24-3; 90-72-2	liquid	30
naphtha	64742-49-0	liquid	10
Sodium hydroxide 40%	1310-73-2	liquid	>480
Sodium hydroxide 10%	1310-73-2	liquid	>480
Sodium hydroxide 40%	1310-73-2	liquid	>480
Sodium hydroxide 5-50%	1310-73-2	liquid	>480
Sodium hydroxide 50%	1310-73-2	liquid	>480
Sodium hydroxide saturated	1310-73-2	liquid	>480
Nitro thinner		liquid	0

Oranet M	69011-36-5, 160875-66-1, 102-71-6, 2634-33-5	liquid	240
Oratartre-962	7647-01-0; 7664-93-9; 68424-85-1	liquid	30
Parathion	56-38-2	liquid	0
Pentadecafluorooctanoic acid (perfluorooctanoic acid) and its inorganic salts	335-67-1	solid	>480
Petroleum ether 40-60°C	64742-49-0	liquid	60
petroleum	64742-48-9	liquid	30
Phenol	108-95-2	solid	8
Phosphoric acid 10%	7664-38-2	liquid	>480
Phosphoric acid saturated	7664-38-2	liquid	>480
Propyl alcohol (1-propanol)	71-23-8	liquid	>480
Propylene oxide (1,2-epoxypropane)	75-56-9	liquid	0
Mercury	7439-97-6	solid	>480
SODIUM HYDROXIDE SOLUTION ≥19 - <22%	1310-73-2	liquid	>480
SOSA C 32%	1310-73-2	liquid	>480
SOSA C TEC PERLAS	1310-73-2	solid	>480
Nitric acid 10%	7697-37-2	liquid	>480
Nitric acid 36%	7697-37-2	liquid	25
Nitric acid 50%	7697-37-2	liquid	15
Nitric acid 53%	7697-37-2	liquid	15
Nitric acid 55% (technical)	7697-37-2	liquid	8
Nitric acid 65%	7697-37-2	liquid	7
Nitric acid 70%	7697-37-2	liquid	4
Hydrochloric acid 10%	7647-01-0	liquid	>480
Hydrochloric acid 25%	7647-01-0	liquid	30
Hydrochloric acid 30–32%	7647-01-0	liquid	20
Sulfuric acid 20%	7664-93-9	liquid	>480
Sulfuric acid 37.5% (battery acid)	7664-93-9	liquid	120
Sulfuric acid 38%	7664-93-9	liquid	>480
Sulfuric acid 45%	7664-93-9	liquid	240
Sulfuric acid 50%	7664-93-9	liquid	120
Sulfuric acid 50% (for analysis)	7664-93-9	liquid	120
Sulfuric acid 92-98.6%	7664-93-9	liquid	2
Sulfuric acid 96%	7664-93-9	liquid	5
Selenium and its inorganic compounds	7782-49-2	solid	>480
Styrene	100-42-5	liquid	0
Tekodur Hardener 7323-03 Colourless	666723-27-9; 28182-81-2; 108-65-6	liquid	10
Tetrachloroethylene	127-18-4	liquid	4
Tetraethyllead	78-00-2	liquid	0
Tetrahydrofuran	109-99-9	liquid	0
Tetramethyllead	75-74-1	liquid	0
Toluene	108-88-3	liquid	0
Trichloroethylene (Tri)	79-01-6	liquid	0
Triethylamine	121-44-8	liquid	10
Vitamin K antagonists	-	solid	>480
Volts Cleaner	64742-48-9, 8028-48-6	liquid	10

Hydrogen peroxide 10%	7722-84-1	liquid	>480
Hydrogen peroxide 20%	7722-84-1	liquid	>480
Hydrogen peroxide 3%	7722-84-1	liquid	>480
Hydrogen peroxide 30%	7722-84-1	liquid	61
Xylene	1330-20-7	liquid	5
cement	65997-15-1	solid	>480
citric acid	77-92-9	liquid	>480
n-Heptane	142-82	liquid	61
Ácido sulfúrico	7664-93-9	liquid	2

Explanations

Permeation time in minutes	**Recommendation**
0 - 10	Not recommended
10 - 60	Low protection / splash guard
60 - 240	Medium protection
240 - 480	High protection

The list is a recommendation for the use of the NITRAS chemical protective gloves shown. The protective gloves were tested under laboratory conditions using selected chemicals (permeation times in minutes). In this context, it should be noted that the performance of personal protective equipment generally depends on the conditions at the respective workplace. The specified permeation times are therefore a recommendation and can be influenced by situation- and workplace-specific factors (e.g. concentration/mixture of chemicals, UV radiation, humidity, temperatures, type of storage, abrasion, intensity of use). All information without guarantee.