



Chemical Compatibility Guide for: Best® N-Dex® Gloves

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Chemical Tested	CAS Number	Concentration	ASTM F 739 Permeation Resistance to Heavy Exposure Breakthrough Time in Minutes	Rate in $\mu\text{g}/\text{cm}^2/\text{min}$	EN 374 Rating (0 to 6)	ASTM F1383 Permeation Resistance to Limited Exposure Breakthrough Time in Minutes	Rate in $\mu\text{g}/\text{cm}^2/\text{min}$	EN 374 Rating (0 to 6)	5 Min.	30 Min.	60 Min.	240 Min.
Acetonitrile	75-05-8	100%	4	153	0	NT	NT		>P	P	P	P
Ammonium Hydroxide	1336-21-6	29%	>480	ND	6	>240	ND		>E	E	E	E
Amyl Alcohol	71-41-0	100%	24	37	0	NT	NT		>E	G	G	G
Bleach: Sodium Hypochlorite (4-6%)	7681-52-9	6%	>480	ND	6	>240	ND	5	>E	E	E	E
Butanol	71-36-3	100%	13	36	1	NT	NT		>E	E	G	G
Butyl Toluene P-tert-	98-51-1	100%	11	100	1	NT	NT		>NT	NT	NT	NT
Caprinus U Multigrade Railroad Oil	66532-00-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
Cyclohexane	110-82-7	100%	10	98	1	NT	NT		>E	E	E	E
Cyclohexanol	108-93-0	100%	80	20	3	NT	NT		>E	E	E	G
Diesel Fuel	77650-28-3	100%	>480	ND	6	>240	ND		>E	E	G	G
Dimethylsulfoxide	67-68-5	100%	23	84	1	NT	NT		>E	G	F	P
Donax Tg Tranmission Fluid	60486-00-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
Ethanol	64-17-5	100%	7	12	0	NT	NT		>E	E	E	G
Ethanolamine	141-43-5	100%	>480	ND	6	>240	ND		>E	E	E	E
Ethyl Ether	60-29-7	100%	2	495	0	NT	NT		>G	G	G	G
Glutaraldehyde	111-30-8	50%	>480	ND	6	>240	ND	5	>E	E	E	E
Hexane	110-54-3	100%	11	8	1	NT	NT		>E	E	E	E
Iso-octane	540-84-1	100%	120	1.5	0	NT	NT		>E	E	E	G
Isopropyl Alcohol	67-63-0	100%	15	29	0	NT	NT		>E	E	E	E
Lactic Acid	50-21-5	85%	>480	ND	6	>240	ND		>E	E	E	E

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Madrella P 150 Oil	56930-00-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
Methyl Isobutyl Ketoxime	105-44-2	100%	>480	ND	6	>240	ND	5	>NT	NT	NT	NT
Mineral Spirits	64475-85-0	100%	>480	ND	6	>240	ND		>E	E	G	F
Octanol N-	111-87-5	100%	>480	ND	6	>240	ND		>E	E	E	G
Perchloroethylene	127-18-4	100%	6	353	0	NR	NR		>F	NR	NR	NR
Phosphoric Acid	7664-38-2	85%	>480	ND	6	>240	ND		>E	NT	NT	E
Potassium Hydroxide	1310-58-3	45%	>480	ND	6	>240	ND		>E	E	E	E
Propanol N-	71-23-8	100%	7	42	0	NT	NT		>G	F	P	P
Shell Aeroshell Grease 22	56280-00-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
Shell Alvania Grease 3	57120-00-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
Shell Diala Oil Ax Base Oil	60030-00-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
Shell Fire & Ice 2000 10w Oil	60015-00-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
Shell Hvi 100 Neutral Mq	63050-00-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
Shell Rotella T Multi 15w Oil	71630-00-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
Shell Spirax S 85w-140 Oil	86404-00-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
Shell Turbo T 68 Hydraulic Fluid	60220-00-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
Shellwax 100	8210-00-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E

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Turpentine	8006-64-2	100%	>480	ND	6	>240	ND		>E	E	E	G

EN 374 RATINGS

Rating	Description
0	10 minutes breakthrough time; Dangerous selection.
1	> 10 minutes breakthrough time; Very poor; Splashes only; Change quickly.
2	> 30 minutes breakthrough time; Poor choice; Change quickly when exposed.
3	> 60 minutes breakthrough time; Sometimes satisfactory; Change soon after exposure.
4	> 120 minutes breakthrough time; Good selection; Change after two hours.
5	> 240 minutes breakthrough time; Next best selection; Change after four hours.
6	> 480 minutes breakthrough time; Safest best selection with high rating attainable.

Cut Resistance Ratings

Rating	Description
0	< 200 grams of weight needed to cut through material with 25 mm of blade travel
1	> 200 grams of weight needed to cut through material with 25 mm of blade travel
2	> 500 grams of weight needed to cut through material with 25 mm of blade travel
3	> 1000 grams of weight needed to cut through material with 25 mm of blade travel
4	> 1500 grams of weight needed to cut through material with 25 mm of blade travel
5	> 3000 grams of weight needed to cut through material with 25 mm of blade travel

Degradation is the physical change in a glove after chemical exposure. Typical effects may be swelling, wrinkling, deterioration, or delamination. There are no accepted standards for measuring degradation. Best degradation testing is based on a protocol considered by the ASTM F23 Protective Clothing Committee. One side of the glove material is exposed to the test chemical for four hours. The percent weight change is measured at four time intervals: 5, 30, 60 and 240 minutes. The gravimetric ratings are ranked as shown below.

Key	Rating	Weight Change
E	Excellent	0-10%
G	Good	11-20%
F	Fair	21-30%
P	Poor	31-50%
NR	Not Recommended	Above 50%

Where degradation rating is poor (P) or not recommended (NR) after 60 minutes, the material is not tested for permeation resistance. Permeation results are listed as not recommended (NR) because of severe degradation. WARNING: Weight change is only our measure of degradation and does not account for certain physical changes such as hardening of PVC.