



Chemical Compatibility Guide for: Best® Black Knight® PVC Gloves

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Chemical Tested	CAS Number	Concentration	ASTM F 739 Permeation Resistance to Heavy Exposure Breakthrough Time in Minutes	Rate in µg/cm ² /min	EN 374 Rating (0 to 6)	ASTM F1383 Permeation Resistance to Limited Exposure Breakthrough Time in Minutes	Rate in µg/cm ² /min	EN 374 Rating (0 to 6)	5 Min.	30 Min.	60 Min.	240 Min.
Alkasol 27	90111-76-3	10%	>480	ND	6	>240	ND	5	>E	E	E	E
Alodine 1000 Solution	97631-99-6	1%	>480	ND	6	>240	ND	5	>E	E	E	E
Alodine 1200s Solution	93755-29-8	2%	>480	ND	6	>240	ND	5	>E	E	E	E
Benzene, 1-chloro-4-trifluoro	98-56-6	100%	18	342	1	42	51	2	>E	E	E	G
Benzene, Trifluoromethyl	98-08-8	100%	20	262	1	29	64	1	>E	G	G	G
Benzene, 1-chloro-2-methyl	25168-05-2	100%	21	103	1	34	27	2	>G	P	NR	NR
Benzene, dichloro-4-trifluoro	328-84-7	100%	61	601	3	90	115	3	>E	E	G	F
Blasocut 4000	94742-52-7	100%	>480	ND	6	>240	ND	5	>E	E	E	E
Caprinus U Multigrade Railroad Oil	66532-00-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
Cascade Columbia 3 Part A	90112-34-7	100%	39	154	2	NT	NT	NT	>E	E	E	E
Citra-safe Deodorizer	95989-27-5	100%	49	138	2	NT	NT	NT	>E	G	G	G
Daraclean 282	90112-34-9	100%	>480	ND	6	>240	ND	5	>E	E	E	E
Deoxidizer 16 Replenisher	97664-39-5	40%	>480	ND	6	>240	ND	5	>E	E	E	E
Donax Tg Transmission Fluid	60486-00-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E

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Dubl-chek Penetrant Mixture	68131-40-8	100%	>480	ND	6	>240	ND	5	>E	E	E	E
Huntsman Dimethylcyclohexyl Amine	98-94-2	100%	15	59	1	NT	NT	NT	>NT	NT	NT	NT
Huntsman Dimethylpiperazine	106-58-1	100%	60	108	3	NT	NT	NT	>NT	NT	NT	NT
Huntsman Jeffcat Dmdee	6425-39-4	100%	165	22	4	NT	NT	NT	>NT	NT	NT	NT
Huntsman Methylmorpholine	7529-22-8	65%	405	43	5	>240	ND	5	>NT	NT	NT	NT
Madrella P 150 Oil	56930-00-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E
Nitric/hydrofluoric Pickling Solution	97697-37-4	50%	>480	ND	6	>240	ND	5	>E	E	E	E
Nycote 7-11 Mixture	90064-17-7	100%	33	66	2	NT	NT	NT	>E	E	E	E
Propanediamine, N,n'-dimethyl	109-55-7	100%	15	59	1	NT	NT	NT	>NT	NT	NT	NT
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 Mg	63050-00-0	100%	>480	ND	6	>240	ND	5	>E	E	E	E

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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
Toluene/mek Mixture (65:3 Ratio)	90108-88-5	65%	11	368	1	NT	NT	NT	>F	P	NR	NR
Turco 5351 Mixture	90075-09-4	100%	5	138	0	NT	NT	NT	>G	F	F	F
Turco 6709	90107-98-4	100%	>480	ND	6	>240	ND	5	>E	E	E	G
Ucon Quenchant A-ro Mixture	97632-00-0	55%	>480	ND	6	>240	ND	5	>E	E	E	E
Urethane Catalyst Alkanol	83016-70-0	100%	180	17	4	NT	NT	NT	>NT	NT	NT	NT

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.