# Chemical Compatibility Guide for: MAPA® STANSOLV® AF-15 Nitrile Gloves

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# StanSolv AF-15

Chemical Product	CAS #	BTT (minutes)	Permeation level	Standard	Degradatio level	Rating
Carbon disulfide 99%	75-15-0	4	0	ASTM F739	NT	NA
Diethylamine 98%	109-89-7	16	1	ASTM F739	NT	NA
Dimethylformamide 99%	68-12-2	11	1	ASTM F739	1	-
Methanol 85%	67-56-1	NT	NT		4	NA
Methanol 99%	67-56-1	24	1	ASTM F739	4	+
n-Heptane 99%	142-82-5	480	6	EN 374-3:2003	NT	NA
n-hexane 95%	110-54-3	480	6	ASTM F739	4	++
Nitrobenzene 99%	98-95-3	20	1	ASTM F739	NT	NA
Sodium hydroxide 20%	1310-73-2	480	6	ASTM F739	4	++
Sodium hydroxide 40%	1310-73-2	480	6	ASTM F739	4	++
Sodium hydroxide 50%	1310-73-2	480	6	ASTM F739	4	++
Sulfuric acid 96%	7664-93-9	60	2	ASTM F739	1	-
Tetrachloroethylene (Perchloroethylene) 99%	127-18-4	52	2	ASTM F739	NT	NA
Tetrahydrofurane 99%	109-99-9	4	0	ASTM F739	NT	NA
Toluene 99%	108-88-3	9	0	ASTM F739	NT	NA

\*not normalized result

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- **Not recommended**, these gloves are deemed unsuitable for work with this chemical.
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# StanSolv A-15

Chemical Product	CAS #	BTT (minutes)	Permeation level	Standard	Degradatio level	Rating
1,1,1-Trichloroethane 99%	71-55-6	75	3	ASTM F739	1	-
2-Butoxyethanol (Butyl Cellusolve) 99%	111-76-2	480	6	ASTM F739	4	++
2-Ethoxyethanol (Cellosolve) 99%	110-80-5	224	4	ASTM F739	NT	NA
2-Ethoxyethyl acetate (Cellosolve Acetate) 99%	111-15-9	138	4	ASTM F739	NT	NA
2-Propanol (Isopropanol) 99%	67-63-0	480	6	EN 374-3:2003	4	++
Acetic acid 10%	64-19-7	480	6	ASTM F739	4	++
Acetic acid 50%	64-19-7	480	6	ASTM F739	4	++
Acetic acid 99%	64-19-7	93	3	ASTM F739	NT	NA
Butyl Acetate 99%	123-86-4	55	2	ASTM F739	4	+
Cumene 98%	98-82-8	191	4	ASTM F739	NT	NA
Cyclohexane 99%	110-82-7	480	6	ASTM F739	NT	NA
Diethylamine 98%	109-89-7	16	1	ASTM F739	3	=
Dimethylformamide 99%	68-12-2	15	1	ASTM F739	1	-
Formaldehyde 30%	50-00-0	NT	NT		3	NA
Formaldehyde 37%	50-00-0	480	6	ASTM F739	4	++
Isobutyl alcohol 99%	78-83-1	480	6	ASTM F739	4	++
Isophorone diisocyanate 98%	4098-71-9	480	6	ASTM F739	NT	NA
Kerosene mixture	8008-20-6	480	6	ASTM F739	4	++
m-Cresol 97%	108-39-4	224	4	ASTM F739	NT	NA
Methanol 85%	67-56-1	NT	NT		4	NA
Methanol 99%	67-56-1	50	2	ASTM F739	4	+
n-Heptane 99%	142-82-5	480	6	ASTM F739	NT	NA
N-methyl-2-Pyrrolidone 99%	872-50-4	18	1	EN 374-3:2003	1	-
Naphtha mixture	8030-30-6	480	6	ASTM F739	4	++
Naphtha VM&P mixture	8032-32-4	480	6	ASTM F739	NT	NA
Nitric acid 50%	7697-37-2	277	5	ASTM F739	3	++

\*not normalized result

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## StanSolv A-15

Chemical Product	CAS#	BTT (minutes)	Permeation level	Standard	Degradatio level	Rating
Phosphoric acid 75%	7664-38-2	480	6	ASTM F739	NT	NA
Phosphoric acid 85%	7664-38-2	480	6	ASTM F739	NT	NA
Sodium hydroxide 20%	1310-73-2	480	6	EN 374-3:2003	4	++
Sodium hydroxide 40%	1310-73-2	480	6	EN 374-3:2003	NT	NA
Sodium hydroxide 50%	1310-73-2	480	6	EN 374-3:2003	NT	NA
Sulfuric acid 96%	7664-93-9	34	2	EN 374-3:2003	NT	NA
t-Butyl Methyl Ether 98%	1634-04-4	238	4	ASTM F739	4	++
Tert. Amyl Methyl Ether 96%	994-05-8	480	6	ASTM F739	4	++
Tetrachloroethylene (Perchloroethylene) 99%	127-18-4	260	5	ASTM F739	4	++
Toluene 99%	108-88-3	18	1	ASTM F739	2	=
Trichloroethylene 99%	79-01-6	12	1	ASTM F739	NT	NA
Triethanolamine 98%	102-71-6	480	6	ASTM F739	4	++
Turpentine mixture	8006-64-2	480	6	ASTM F739	4	++
Unleaded gasoline mixture	8006-61-9	480	6	ASTM F739	4	++
Xylene 99%	1330-20-7	32	2	EN 374-3:2003	1	-

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# Stansolv A-10

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1,1,1-Trichloroethane 99%	71-55-6	52	2	ASTM F739	1	-
1,1,2,2-Tetrachloroethane 98%	79-34-5	12	1	ASTM F739	1	-
1,3 - Dichlorobenzene 98%	541-73-1	19	1	ASTM F739	1	-
1,3 Ethoxy propionate (Ethyl 3-ethoxypropionate) 99%	763-69-9	76	3	ASTM F739	NT	NA
2-Butoxyethanol (Butyl Cellusolve) 99%	111-76-2	250	5	ASTM F739	2	+
2-Ethoxyethanol (Cellosolve) 99%	110-80-5	216	4	ASTM F739	3	++
2-Ethoxyethyl acetate (Cellosolve Acetate) 99%	111-15-9	75	3	ASTM F739	NT	NA
2-Propanol (Isopropanol) 99%	67-63-0	480	6	ASTM F739	4	++
2-Pyrrolidine 99%	123-75-1	21	1	ASTM F739	NT	NA
2,2,2-Trifluoroethanol 99%	75-89-8	11	1	ASTM F739	1	-
Acetic acid 10%	64-19-7	480	6	ASTM F739	4	++
Acetic acid 50%	64-19-7	480	6	ASTM F739	4	++
Acetic acid 99%	64-19-7	43	2	ASTM F739	2	=
Acetone 99%	67-64-1	4	0	ASTM F739	1	-
Ammonium hydroxide solution 29%	1336-21-6	440	5	ASTM F739	4	++
Aniline 99%	62-53-3	30	1	ASTM F739	1	-
Bioact 115 mixture	NA	123	4	ASTM F739	NT	NA
Butyl Acetate 99%	123-86-4	44	2	ASTM F739	2	=
Carbon Tetrachloride 99%	56-23-5	243	5	ASTM F739	3	++
Chromic Acid 50%	7738-94-5	261	5	ASTM F739	4	++
Cumene 98%	98-82-8	189	4	ASTM F739	4	++
Cyclohexane 99%	110-82-7	480	6	ASTM F739	4	++
Cyclopentanone 99%	120-92-3	6	0	ASTM F739	NT	NA
Diethanolamine 97%	111-42-2	480	6	ASTM F739	4	++
Dimethylsulfoxide 99%	67-68-5	53	2	ASTM F739	1	-
Ethanol 95%	64-17-5	92	3	ASTM F739	4	++

\*not normalized result

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Chemical Product	CAS#	BTT (minutes)	Permeation level	Standard	Degradatio level	Rating
Ether (Diethyl Ether) 99%	60-29-7	20	1	ASTM F739	1	-
Ethyl L -(-)- lactate 98%	687-47-8	152	4	ASTM F739	2	+
Ethylene glycol 99%	107-21-1	480	6	ASTM F739	4	++
Formaldehyde 37%	50-00-0	480	6	ASTM F739	4	++
Furfural 99%	98-01-1	17	1	ASTM F739	1	-
Hexamethyldisilazane (HMDS) 98%	999-97-3	480	6	ASTM F739	NT	NA
Hydrazine 35%	302-01-2	480	6	ASTM F739	4	++
Hydrazine 70%	302-01-2	480	6	ASTM F739	4	++
Hydrochloric acid 10%	7647-01-0	480	6	ASTM F739	4	++
Hydrochloric acid 35%	7647-01-0	NT	NT		4	NA
Hydrochloric acid 37%	7647-01-0	480	6	ASTM F739	4	++
Hydrofluoric Acid 49%	7664-39-3	200	4	ASTM F739	3	++
Isobutyl alcohol 99%	78-83-1	480	6	ASTM F739	4	++
Kerosene mixture	8008-20-6	480	6	ASTM F739	4	++
m-Cresol 97%	108-39-4	130	4	ASTM F739	1	-
Methanol 85%	67-56-1	NT	NT		4	NA
Methanol 99%	67-56-1	30	1	ASTM F739	4	+
Methyl-3-methoxypropionate 100%	3852-09-3	28	1	ASTM F739	1	-
Methylisobutylketone 99%	108-10-1	18	1	ASTM F739	1	
n-Heptane 99%	142-82-5	480	6	ASTM F739	4	++
n-hexane 95%	110-54-3	480	6	ASTM F739	4	++
N-methyl-2-Pyrrolidone 99%	872-50-4	21	1	ASTM F739	1	-
Naphtha mixture	8030-30-6	480	6	ASTM F739	4	++
Naphtha VM&P mixture	8032-32-4	480	6	ASTM F739	4	++
Nitric acid 70%	7697-37-2	14	1	ASTM F739	NT	NA
Nitrobenzene 99%	98-95-3	17	1	ASTM F739	1	-

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Nitrohydrochloric acid (Aqua Regia) mixture	8007-56-5	480	6	ASTM F739	4	++
Oleum (free SO3) 67%	8014-95-7	358	5	ASTM F739	NT	NA
Phenol 85%	108-95-2	111	3	ASTM F739	1	-
Phosphoric acid 75%	7664-38-2	480	6	ASTM F739	4	++
Phosphoric acid 85%	7664-38-2	480	6	ASTM F739	4	++
Polychlorinated Biphenyl (PCB) mixture	1336-36-3	NT	NT		4	NA
Polychlorinated Biphenyl (PCB) (50%) in 1,2,4-Trichlorobenzene mixture	11097-69-1	180	4	ASTM F739	NT	NA
Potassium Hydroxide 50%	1310-58-3	480	6	ASTM F739	4	++
Propylene Glycol Methyl Ethyl Acetate (PGMEA) 99%	108-65-6	103	3	ASTM F739	3	++
Propylene Glycol Monomethyl Ether 99%	107-98-2	111	3	ASTM F739	4	++
Sodium hydroxide 20%	1310-73-2	480	6	ASTM F739	4	++
Sodium hydroxide 40%	1310-73-2	480	6	ASTM F739	4	++
Sodium hydroxide 50%	1310-73-2	480	6	ASTM F739	4	++
Sulfuric acid 96%	7664-93-9	110	3	ASTM F739	1	-
Tert. Amyl Methyl Ether 96%	994-05-8	480	6	ASTM F739	4	++
Tetrachloroethylene (Perchloroethylene) 99%	127-18-4	480	6	ASTM F739	3	++
Tetraethyl Orthosilicate 100%	78-10-4	480	6	ASTM F739	4	++
Tetramethyl Ammonium Hydroxide 25%	75-59-2	720	5	ASTM F739	4	++
Toluene 99%	108-88-3	10	0	ASTM F739	1	-
Triethanolamine 98%	102-71-6	480	6	ASTM F739	4	++
Trimethylphosphite 97%	121-45-9	24	1	ASTM F739	NT	NA
Turpentine mixture	8006-64-2	480	6	ASTM F739	4	++
Unleaded gasoline mixture	8006-61-9	480	6	ASTM F739	4	++
Xylene 99%	1330-20-7	38	2	ASTM F739	1	-

\*not normalized result

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