

AdvanTech 514

薬品名 濃度%	CAS #	透過正結果 (分)	Permeation level	Standard	Degradatio level	Rating
トリクロロエタン99%	71-55-6	7	0	ASTM F739	NT	NA
酢1, 1, 1, 2, 2, 3, 4, 5, 5, 5 -デカフルオロペンタン97%	138495-42-8	13	1	ASTM F739	NT	NA
トリクロロトリフルオロエタン 99%	76-13-1	20	1	ASTM F739	1	-
trans-1, 2-ジクロロエチレン98%	156-60-5	2	0	ASTM F739	2	-
3-エトキシプロピオン酸エチル99%	763-69-9	480	6	ASTM F739	NT	NA
2-ブトキシエタノール99%	111-76-2	53	2	ASTM F739	NT	NA
酢酸2-ブトキシエチル85%	112-07-2	35	2	ASTM F739	NT	NA
2-エトキシエタノール99%	110-80-5	27	1	ASTM F739	NT	NA
酢酸2-エトキシエチル (別名エチレングリ コールモノエチルエーテルアセテート) 99%	111-15-9	14	1	ASTM F739	4	+
2-メトキシエタノール99%	109-86-4	40	2	ASTM F739	NT	NA
酢酸2-メトキシエチル (別名エチレングリ コールモノメチルエーテルアセテート) 98%	110-49-6	27	1	ASTM F739	NT	NA
プロピルアルコール99%	67-63-0	38	2	ASTM F739	4	+
4, 4'-ジアミノジフェニルスルホン97%	80-008-0	480	6	ASTM F739	NT	NA
4, 4'-メチレンジアニリン (MDA) 15%、 メタノール15%混合	101-77-9	19	1	ASTM F739	NT	NA
4, 4'-メチレンジアニリン (MDA) 15%、 トルエン混合	101-77-9	15	1	ASTM F739	NT	NA
酢酸10%	64-19-7	NT	NT		4	NA
酢酸50%	64-19-7	NT	NT		4	NA
酢酸99%	64-19-7	32	2	ASTM F739	4	+
アセトン99%	67-64-1	6	0	ASTM F739	4	=
アルミニウム混合物	NA	960	6	ASTM F739	4	++
酸化アルミニウム	NA	55	2	ASTM F739	NT	NA
フッ化アンモニウム40%	12125-01-8	480	6	ASTM F739	NT	NA
フッ化アンモニウム79%	12125-01-8	480	6	ASTM F739	NT	NA

*not normalized result

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- **Splash protection only**, on chemical exposure the gloves should be discarded and new gloves worn as soon as possible.
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水酸化アンモニウム水29%	1336-21-6	36	2	ASTM F739	4	+
Baker PRS-1000	NA	20	1	ASTM F739	NT	NA
Baker PRS-2000	NA	130	4	ASTM F739	NT	NA
Baker PRS-3000	NA	480	6	ASTM F739	NT	NA
ベンゼン99%	71-43-2	4	0	ASTM F739	1	-
バッファード・オキサイド・エッチ液	NA	480	6	ASTM F739	4	++
酢酸ブチル99%	123-86-4	7	0	ASTM F739	4	=
クロム酸50%	7738-94-5	60	2	ASTM F739	NT	NA
シクロヘキサノン99%	108-94-1	23	1	ASTM F739	1	-
シクロペンタノン99%	120-92-3	11	1	ASTM F739	NT	NA
ジクロロメタン (別名塩化メチレン) 99%	75-09-2	4	0	ASTM F739	NT	NA
デイクロメート溶液	NA	480	6	ASTM F739	4	++
ジエチルアミン98%	109-89-7	4	0	ASTM F739	NT	NA
ビスフェノールAジグリシジルエーテル100%	25068-38-6	480	6	ASTM F739	NT	NA
ジメチルアミン35%	124-40-3	53	2	ASTM F739	NT	NA
N, N-ジメチルホルムアミド99%	68-12-2	8	0	ASTM F739	NT	NA
ジメチルスルホキシド99%	67-68-5	181	4	ASTM F739	4	++
エピクロロヒドリン99%	106-89-8	4	0	ASTM F739	NT	NA
エタノール95%	64-17-5	21	1	ASTM F739	NT	NA
乳酸エチル95%	97-64-3	29	1	ASTM F739	NT	NA
エチレングリコール99%	107-21-1	480	6	ASTM F739	4	++
ホルムアルデヒド37%	50-00-0	480	6	EN 16523-1:2015	4	++
ヘキサメチル-ジシラザン98%	999-97-3	18	1	ASTM F739	1	-
塩酸10%	7647-01-0	480	6	EN 374-3:2003	4	++
塩酸35%	7647-01-0	NT	NT		4	NA

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塩酸37%	7647-01-0	454	5	ASTM F739	4	++
フッ化水素10%	7664-39-3	480	6	EN 374-3:2003	4	++
フッ化水素40%	7664-39-3	480	6	EN 16523-1:2015	NT	NA
フッ化水素49%	7664-39-3	390	5	ASTM F739	NT	NA
過酸化水素30%	7722-84-1	960	6	ASTM F739	4	++
石油留分又は残油の水素化精製又は分解により得られる軽油	64742-53-6	161	4	ASTM F739	2	+
灯油	8008-20-6	26	1	ASTM F739	1	-
KOH Etch混合	NA	278	5	ASTM F739	4	++
KTI Pad Etch混合	NA	480	6	ASTM F739	NT	NA
KTI Silicon Etch混合	NA	480	6	ASTM F739	NT	NA
メタンスルホン酸99%	75-75-2	NT	NT		4	NA
メタノール85%	67-56-1	19	1	ASTM F739	4	+
メタノール99%	67-56-1	NT	NT		4	NA
2-ヘプタノン98%	110-43-0	8	0	ASTM F739	1	-
2-ブタノン99%	78-93-3	4	0	ASTM F739	3	=
3-メトキシプロピオン酸メチル100%	3852-09-3	11	1	ASTM F739	3	=
n-ヘキササン95%	110-54-3	3	0	ASTM F739	1	-
N-メチル-2-ピロリドン99%	872-50-4	50	2	ASTM F739	4	+
N, N-ジメチルアセトアミド99%	127-19-5	47	2	ASTM F739	NT	NA
石油エーテル (VM&Pナフサ)	8032-32-4	2	0	ASTM F739	1	-
硝酸10%	7697-37-2	840	6	ASTM F739	4	++
硝酸20%	7697-37-2	480	6	ASTM F739	4	++
硝酸40%	7697-37-2	480	6	ASTM F739	4	++
硝酸50%	7697-37-2	NT	NT		4	NA
硝酸68%	7697-37-2	299	5	EN 374-3:2003	4	++

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硝酸70%	7697-37-2	307	5	ASTM F739	4	++
硝酸90%	7697-37-2	7	0	ASTM F739	NT	NA
窒化タンタルエッチング液混合	NA	NT	NT		4	NA
王水	8007-56-5	480	6	ASTM F739	NT	NA
フェノール85%	108-95-2	102	3	ASTM F739	4	++
リン酸75%	7664-38-2	480	6	ASTM F739	4	++
リン酸85%	7664-38-2	480	6	ASTM F739	4	++
オキシ塩化リン99%	10025-87-3	15	1	ASTM F739	NT	NA
ピラニア溶液	NA	243	5	ASTM F739	1	-
ポリエチレングリコールモノ-オク チルフェニルエーテル100%	9002-93-1	480	6	ASTM F739	NT	NA
水酸化カリウム50%	1310-58-3	480	6	ASTM F739	4	++
水酸化カリウム混合	NA	24	1	ASTM F739	NT	NA
プロパンジオール99%	57-55-6	480	6	ASTM F739	4	++
1-メトキシ-2-プロピルアセ タート99%	108-65-6	47	2	ASTM F739	3	+
1-メトキシ-2-ヒドロキシブ ロパン99%	107-98-2	26	1	ASTM F739	4	+
四塩化ケイ素100%	10026-04-7	15	1	ASTM F739	NT	NA
スロープエッチング混合	NA	260	5	ASTM F739	4	++
水酸化ナトリウム20%	1310-73-2	780	6	ASTM F739	4	++
水酸化ナトリウム40%	1310-73-2	780	6	ASTM F739	4	++
水酸化ナトリウム50%	1310-73-2	780	6	ASTM F739	4	++
硫酸10%	7664-93-9	900	6	ASTM F739	4	++
硫酸96%	7664-93-9	102	3	ASTM F739	3	++
テトラクロロエチレン99%	127-18-4	4	0	ASTM F739	1	-
テトラエチル オルトケイ酸100%	78-10-4	25	1	ASTM F739	1	-

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テトラメチルアンモニウム=ヒドロキシド25%	75-59-2	480	6	ASTM F739	4	++
塩化チオニル99%	7719-09-7	15	1	ASTM F739	NT	NA
トルエン49%、メチルイソブチルケトン34.5%、メチルエチルケトン16.5%混合	NA	1	0	EN 374-3:2003	NT	NA
ジイソシアン酸トリレン80%	584-84-9	27	1	ASTM F739	NT	NA
トリクロロエチレン99%	79-01-6	NT	NT		1	NA
トリメチル-ホスファイト97%	121-45-9	10	0	ASTM F739	NT	NA
ガソリン	8006-61-9	4	0	ASTM F739	1	-
キシレン99%	1330-20-7	4	0	ASTM F739	1	-

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Chemical Product	CAS #	Breakthrough time (minutes)	Permeation level	Standard	Degradation level	Rating
1,1,1-Trichloroethane 99%	71-55-6	7	0	ASTM F739	NT	NA
1,1,1,2,2,3,4,5,5,5-Decafluoropentane 97%	138495-42-8	13	1	ASTM F739	NT	NA
1,1,2-Trichlorotrifluoroethane (Freon TF or Freon 113) 99%	76-13-1	20	1	ASTM F739	1	-
1,2 Dichloroethylene 98%	156-60-5	2	0	ASTM F739	2	-
1,3 Ethoxy propionate (Ethyl 3-ethoxypropionate) 99%	763-69-9	480	6	ASTM F739	NT	NA
2-Butoxyethanol (Butyl Cellulosolve) 99%	111-76-2	53	2	ASTM F739	NT	NA
2-Butoxyethylacetate (Butyl cellosolve acetate) 85%	112-07-2	35	2	ASTM F739	NT	NA
2-Ethoxyethanol (Cellosolve) 99%	110-80-5	27	1	ASTM F739	NT	NA
2-Ethoxyethyl acetate (Cellosolve Acetate) 99%	111-15-9	14	1	ASTM F739	4	+
2-Methoxyethanol (Methyl Cellosolve) 99%	109-86-4	40	2	ASTM F739	NT	NA
2-Methoxyethanol Acetate (Methyl cellosolve acetate) 98%	110-49-6	27	1	ASTM F739	NT	NA
2-Propanol (Isopropanol) 99%	67-63-0	38	2	ASTM F739	4	+
4,4 - diamino diphenylsulfone 97%	80-008-0	480	6	ASTM F739	NT	NA
4,4'-Methylenedianiline (MDA) 15% and 15% Methanol mixture	101-77-9	19	1	ASTM F739	NT	NA
4,4'-Methylenedianiline (MDA) 15% in Toluene mixture	101-77-9	15	1	ASTM F739	NT	NA
Acetic acid 10%	64-19-7	NT	NT		4	NA
Acetic acid 50%	64-19-7	NT	NT		4	NA
Acetic acid 99%	64-19-7	32	2	ASTM F739	4	+
Acetone 99%	67-64-1	6	0	ASTM F739	4	=
Aluminum Etch mixture	NA	960	6	ASTM F739	4	++
Aluminum Oxide mixture	NA	55	2	ASTM F739	NT	NA
Ammonium Fluoride 40%	12125-01-8	480	6	ASTM F739	NT	NA
Ammonium Fluoride 79%	12125-01-8	480	6	ASTM F739	NT	NA

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Ammonium hydroxide solution 29%	1336-21-6	36	2	ASTM F739	4	+
Baker PRS-1000 mixture	NA	20	1	ASTM F739	NT	NA
Baker PRS-2000 mixture	NA	130	4	ASTM F739	NT	NA
Baker PRS-3000 mixture	NA	480	6	ASTM F739	NT	NA
Benzene 99%	71-43-2	4	0	ASTM F739	1	-
Buffered Oxide Etch mixture	NA	480	6	ASTM F739	4	++
Butyl Acetate 99%	123-86-4	7	0	ASTM F739	4	=
Chromic Acid 50%	7738-94-5	60	2	ASTM F739	NT	NA
Cyclohexanone 99%	108-94-1	23	1	ASTM F739	1	-
Cyclopentanone 99%	120-92-3	11	1	ASTM F739	NT	NA
Dichloromethane (Methylene Chloride) 99%	75-09-2	4	0	ASTM F739	NT	NA
Dichromate cleaning solution mixture	NA	480	6	ASTM F739	4	++
Diethylamine 98%	109-89-7	4	0	ASTM F739	NT	NA
Diglycidal ether of bisphenol 100%	25068-38-6	480	6	ASTM F739	NT	NA
Dimethylamine 35%	124-40-3	53	2	ASTM F739	NT	NA
Dimethylformamide 99%	68-12-2	8	0	ASTM F739	NT	NA
Dimethylsulfoxide 99%	67-68-5	181	4	ASTM F739	4	++
Epichlorohydrin 99%	106-89-8	4	0	ASTM F739	NT	NA
Ethanol 95%	64-17-5	21	1	ASTM F739	NT	NA
Ethyl lactate 95%	97-64-3	29	1	ASTM F739	NT	NA
Ethylene glycol 99%	107-21-1	480	6	ASTM F739	4	++
Formaldehyde 37%	50-00-0	480	6	EN 16523-1:2015	4	++
Hexamethyldisilazane (HMDS) 98%	999-97-3	18	1	ASTM F739	1	-
Hydrochloric acid 10%	7647-01-0	480	6	EN 374-3:2003	4	++
Hydrochloric acid 35%	7647-01-0	NT	NT		4	NA

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Hydrochloric acid 37%	7647-01-0	454	5	ASTM F739	4	++
Hydrofluoric Acid 10%	7664-39-3	480	6	EN 374-3:2003	4	++
Hydrofluoric Acid 40%	7664-39-3	480	6	EN 16523-1:2015	NT	NA
Hydrofluoric Acid 49%	7664-39-3	390	5	ASTM F739	NT	NA
Hydrogen peroxide 30%	7722-84-1	960	6	ASTM F739	4	++
Hydrotreated Light Naphthenic Distillate mixture	64742-53-6	161	4	ASTM F739	2	+
Kerosene mixture	8008-20-6	26	1	ASTM F739	1	-
KOH Etch mixture	NA	278	5	ASTM F739	4	++
KTI Pad Etch mixture	NA	480	6	ASTM F739	NT	NA
KTI Silicon Etch mixture	NA	480	6	ASTM F739	NT	NA
Methanesulfonic Acid 99%	75-75-2	NT	NT		4	NA
Methanol 85%	67-56-1	19	1	ASTM F739	4	+
Methanol 99%	67-56-1	NT	NT		4	NA
Methyl Amyl Ketone 98%	110-43-0	8	0	ASTM F739	1	-
Methyl Ethyl Ketone (2-Butanone) 99%	78-93-3	4	0	ASTM F739	3	=
Methyl-3-methoxypropionate 100%	3852-09-3	11	1	ASTM F739	3	=
n-hexane 95%	110-54-3	3	0	ASTM F739	1	-
N-methyl-2-Pyrrolidone 99%	872-50-4	50	2	ASTM F739	4	+
N-N dimethyl acetamide 99%	127-19-5	47	2	ASTM F739	NT	NA
Naphtha VM&P mixture	8032-32-4	2	0	ASTM F739	1	-
Nitric acid 10%	7697-37-2	840	6	ASTM F739	4	++
Nitric acid 20%	7697-37-2	480	6	ASTM F739	4	++
Nitric acid 40%	7697-37-2	480	6	ASTM F739	4	++
Nitric acid 50%	7697-37-2	NT	NT		4	NA
Nitric acid 68%	7697-37-2	299	5	EN 374-3:2003	4	++

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Nitric acid 70%	7697-37-2	307	5	ASTM F739	4	++
Nitric acid 90%	7697-37-2	7	0	ASTM F739	NT	NA
Nitride Etch mixture	NA	NT	NT		4	NA
Nitrohydrochloric acid (Aqua Regia) mixture	8007-56-5	480	6	ASTM F739	NT	NA
Phenol 85%	108-95-2	102	3	ASTM F739	4	++
Phosphoric acid 75%	7664-38-2	480	6	ASTM F739	4	++
Phosphoric acid 85%	7664-38-2	480	6	ASTM F739	4	++
Phosphorus oxychloride 99%	10025-87-3	15	1	ASTM F739	NT	NA
Piranha Etch mixture	NA	243	5	ASTM F739	1	-
Polyethylene glycol octylphenyl ether 100%	9002-93-1	480	6	ASTM F739	NT	NA
Potassium Hydroxide 50%	1310-58-3	480	6	ASTM F739	4	++
Potassium Hydroxide Etch mixture	NA	24	1	ASTM F739	NT	NA
Propylene Glycol 99%	57-55-6	480	6	ASTM F739	4	++
Propylene Glycol Methyl Ethyl Acetate (PGMEA) 99%	108-65-6	47	2	ASTM F739	3	+
Propylene Glycol Monomethyl Ether 99%	107-98-2	26	1	ASTM F739	4	+
Silicon tetrachloride 100%	10026-04-7	15	1	ASTM F739	NT	NA
Slope Etch mixture	NA	260	5	ASTM F739	4	++
Sodium hydroxide 20%	1310-73-2	780	6	ASTM F739	4	++
Sodium hydroxide 40%	1310-73-2	780	6	ASTM F739	4	++
Sodium hydroxide 50%	1310-73-2	780	6	ASTM F739	4	++
Sulfuric acid 10%	7664-93-9	900	6	ASTM F739	4	++
Sulfuric acid 96%	7664-93-9	102	3	ASTM F739	3	++
Tetrachloroethylene (Perchloroethylene) 99%	127-18-4	4	0	ASTM F739	1	-
Tetraethyl Orthosilicate 100%	78-10-4	25	1	ASTM F739	1	-

*not normalized result

OVERALL CHEMICAL PROTECTION RATING

Protection rating is determined by taking into account the effects of both permeation and degradation in an attempt to provide users with an overall protection guideline when using our glove products against specific chemicals.

- Used for **high chemical exposure** or chemical immersion, limited to breakthrough time based on a working day.
- Used for **repeated chemical contact**, limited to total chemical exposure i.e. : accumulative breakthrough time based on a working day.
- **Splash protection only**, on chemical exposure the gloves should be discarded and new gloves worn as soon as possible.
- **Not recommended**, these gloves are deemed unsuitable for work with this chemical.

NT: Not tested

NA: "Not applicable" because not fully tested (only degradation OR permeation results)

The chemical test data and overall chemical protection rating should not be used as the absolute basis for glove selection. Actual in-use conditions may vary glove performance from the controlled conditions of laboratory tests. Factors other than chemical contact time

AdvanTech 514

Chemical Product	CAS #	Breakthrough time (minutes)	Permeation level	Standard	Degradation level	Rating
Tetramethyl Ammonium Hydroxide 25%	75-59-2	480	6	ASTM F739	4	++
Thionylchloride 99%	7719-09-7	15	1	ASTM F739	NT	NA
Toluene 49% Methyl Isobutyl Ketone 34.5% Methyl Ethyl Ketone 16.5% mixture	NA	1	0	EN 374-3:2003	NT	NA
Toluene Diisocyanate (TDI) 80%	584-84-9	27	1	ASTM F739	NT	NA
Trichloroethylene 99%	79-01-6	NT	NT		1	NA
Trimethylphosphite 97%	121-45-9	10	0	ASTM F739	NT	NA
Unleaded gasoline mixture	8006-61-9	4	0	ASTM F739	1	-
Xylene 99%	1330-20-7	4	0	ASTM F739	1	-

*not normalized result

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