

Kemikaalisuojaopas;

PERMEATION BREAKTHROUGH TIMES
ACCORDING TO EN374-3:2003

Oikean kemikaalisuojan valitseminen on tärkeää sekä myös vaikeaa, kun kyse on käsineistä. Taulukko antaa suosituksen mikä materiaali ja mikä käsine antaa parhaan suojan erilaisia kemikaaleja vastaan. Joka vuosi tulee paljon uusia kemikaaleja. Jos oikean kemikaalisuojan valinnasta on epävarmuutta, on aina parempi olla meihin yhteydessä.

< 10 MINUTES
10 - 60 MINUTES
60 - 240 MINUTES
240 > 480 MINUTES

CHEMICAL DESIGNATION		PRODUCT DESIGNATION				
CHEMICAL NAME	CAS	137-30/137-40/137-58 PVC	GUIDE 907 PVC	GUIDE 143 PVC	GUIDE 146 PVC	GUIDE 165 PVC
1,2 Dichloro Ethane	107-06-2	4	13	11	11	
1,2-Dichlorethan Reincst	107-06-2	12	13			
1,4 Dioxane	123-91-1	18	23	27	22	
"1-Butanol (Butyl Alcohol)"	71-36-3	30	66	>480	>480	>480
"1-Propanol (Propyl Alcohol)"	71-23-8	41	70			
2,6-Dimethyl-4-Heptanone	108-83-8	>480	>480	>480	>480	
2-Nitro Propane (95.5%)	79-46-9	30	32	21	26	
Acetaldehyde	75-07-0	6	9	24	27	
Acetic Acid (Glacial)	64-19-7	24	80	121	82	52
Acetone	67-64-1	12	11	10	11	9
Acetonitrile	75-05-8	11	16	20	25	13
Acrylamide (50%)	79-06-1	>480	>480	>480	>480	
Acrylic Acid	79-10-7	38	69	58	39	
Ammonium Floride (40%)	12125-01-8	>480	>480	>480	>480	
Ammonium Hydroxide (< 30 %)	1336-21-6	>480	>480	>480	>480	
Ammonium Hydroxide (35%)	1336-21-6	>480	>480	>480	>480	39
Amyl Acetate	628-63-7	18	29			36
Aniline	62-53-3	65	145	230	173	154
Battery Acid	7664-93-9	>480	>480	>480	>480	
Benzaldehyde	100-52-7	18	38	66	48	
Benzene	71-43-2	7	10	17	23	
Butoxy Propanol	5131-66-5	>480	>480	>480	>480	
Butoxy Triglycol	143-22-6	>480	>480	>480	>480	
Butyl Acetate	123-86-4	12	26			
"Butyl Carbitol Solvent (Diethylene Glycol Monobutyl Ether)"	112-34-5	>480	>480	>480	>480	
"Butyl Cellosolve Solvent (2- Butoxy Ethanol)"	111-76-2	>480	>480	>480	>480	
"Butyl Ethylene (1-Hexene)"	592-41-6	>480	>480	>480	>480	
Butyro Lactone	96-48-0	88	100	122	88	
Carbon Tetra Chloride	56-23-5	23	31	43	31	12
Carbondisulfide	75-15-0	5	6	8	6	7
"Castor Oil (Ricinus Oil)"	8001-79-4	>480	>480	>480	>480	
Chlorobenzene	108-90-7	10	13	16	24	
Chloroform	67-66-3	4	5	6	4	
Chromic Acid (50%)	1333-82-0	>480	>480	>480	>480	
Chromium Trioxide	1333-82-0	>480	>480	>480	>480	
Citric Acid (30%)	77-92-9	>480	>480	>480	>480	
Cresol	1319-77-3	>480	>480	>480	>480	
Cresylic Acid	1319-77-3	>480	>480	>480	>480	
Cyclohexane	110-82-7	18	34	56	50	
Cyclohexanone	108-94-1	63	57			38
Cylcohexanol	108-93-0	>480	>480	>480	>480	
Diacetone Alcohol	123-42-2	>480	>480	>480	>480	
Di-Butyl Phthalate (D.b.p)	84-74-2	>480	>480	>480	>480	>480
Diesel	77650-28-3	>480	>480	>480	>480	>480
Diethanolamine	111-42-2	>480	>480	>480	>480	>480
"Diethyl Ether (Ethyl Ether)"	60-29-7	4	5	9	7	3
Diethylamine	109-89-7	4	9	13	11	5
"Diethylene Glycol Monoethyl Ether (Hexylcarbitol Solvent)"	112-59-4	>480	>480	>480	>480	
"Diethylene Glycol Monomethyl Ether (Methylcarbitol Solvent)"	111-77-3	>480	>480	>480	>480	
Di-Isobutyl Ketone	108-83-8	>480	>480	>480	>480	>480

CHEMICAL DESIGNATION		PRODUCT DESIGNATION				
CHEMICAL NAME	CAS	137-30/137-40/137-58 PVC	GUIDE 907 PVC	GUIDE 143 PVC	GUIDE 146 PVC	GUIDE 165 PVC
Dimethyl Sulfate	77-78-1	157		100		
Dimethylacetamide	127-19-5					
Dimethyl Formamide (Dmf)	68-12-2	14	27	39	34	34
"Diocetyl Phthalate [Di(2-Ethyl Hexyl)Phthalate] (D.o.p)"	117-81-7	>480	>480	>480	>480	
"Dipropasol Glycol Mono N-Butyl Ether (Butyl Dipropasol Solvent) (Dipropylene Glycol Mono N-Butyl Ether)"	29911-28-2	>480	>480	>480	>480	
Dipropylene Glycol Mono N-Propyl Ether	29911-27-1	>480	>480	>480	>480	
Epichlorohydrin	106-89-8	29	27	18	18	
Epoxidised Soya Bean Oil	8013-07-8	>480	>480	>480	>480	
Ethanolamine	141-43-5	>480	>480	>480	>480	
"Ethoxytriglycol (Triethylene Glycol Mono Ethyl Ether)"	112-50-5	>480	>480	>480	>480	>480
Ethyl Acetate	141-78-6	13	13	11	15	6
"Ethyl Alcohol (Ethanol)(90%)"	64-17-5	26	42	45	40	>480
Ethyl Butanol	97-95-0	>480	>480	>480	>480	
Ethylene Glycol	107-21-1	>480	>480	>480	>480	>480
"Ethylene Glycol Monopropyl Ether (Propyl Cellosolve Solvent)"	2807-30-9	>480	>480	>480	>480	>480
Formaldehyde (37%)	50-00-0	>480	>480	>480	>480	>480
Formic Acid (90%)	64-18-6	>480	>480	>480	>480	
Furfural	98-01-1	26	45	65	50	41
Glycerine	56-81-5	>480	>480	>480	>480	
"Groundnut Oil (Peanut Oil)"	8002-03-7	>480	>480	>480	>480	
Hexylcellosolve Solvent	112-25-4	>480	>480	>480	>480	>480
Hydrazine Hydrate (85%)	302-01-2	>480	>480	>480	>480	
Hydrochloric Acid (10%)	7647-01-0	>480	>480	>480	>480	>480
Hydrochloric Acid (30%)	7647-01-0	>480	>480	>480	>480	
Hydrochloric Acid (37%)	7647-01-0	95		>480	>480	91
Hydrogen Peroxide	7722-84-1	>480	>480	>480	>480	
Hydrogen Peroxide (30 %)	7722-84-1	>480	>480	>480	>480	>480
Hydroquinone	123-31-9	>480	>480	>480	>480	
"Iodomethane (Methyl Iodide)"	74-88-4	5	11			
"Iso Butyl Alcohol (2-Butanol)"	78-83-1	41	86			
"Iso Butyl Methyl Ketone (Methyl Iso Butyl Ketone) (Mibk)"	108-10-1	11	18			
"Iso Propyl Alcohol (2-Propanol)"	67-63-0	40	70			>480
Isoamyl Alcohol	123-51-3	45	80			
Isoparaffin H	90622-57-4	227				40
Kerosene	8008-20-6	>480	>480	>480	>480	>480
Lactic Acid (85%)	50-21-5	>480	>480	>480	>480	>480
Maleic Acid	110-16-7	>480	>480	>480	>480	
"Methanol (Methyl Alcohol)"	67-56-1	50	31	36	8	46
Methoxy Triglycol	112-35-6	>480	>480	>480	>480	
Methyl Acetate	79-20-9	4	11			6
Methyl Acrylate	96-33-3	3	11			
Methyl Amine (40%)	74-89-5	>480	>480	>480	>480	>480
"Methyl Ethyl Ketone (2-Butanone) (Mek)"	78-93-3	4	10			7
Methyl Methacrylate	80-62-6	4	9			
"Methylene Chloride (Di Chloro Methane)"	75-09-2	5	6	9	6	4
Mono Ethanol Amine	141-43-5	>480	>480	>480	>480	
Morpholin	110-91-8	26	38			
Muriatic Acid	7647-01-0	>480	>480	>480	>480	
N,N Dimethyl Acetamide	127-19-5	14	34			
N-Amyl Alcohol	71-41-0	230	193	172	140	
"Naphtha (Shellsol A)"	64742-95-6	19	29	45	34	32
N-Heptane	142-82-5	23	63	39	39	46
N-Hexane	110-54-3	8	18	54	27	
Nitric Acid (10%)	7697-37-2	>480	>480	>480	>480	
Nitric Acid (65%)	7697-37-2	70	124			

CHEMICAL DESIGNATION		PRODUCT DESIGNATION				
CHEMICAL NAME	CAS	137-30/137-40/137-58 PVC	GUIDE 907 PVC	GUIDE 143 PVC	GUIDE 146 PVC	GUIDE 165 PVC
Nitro Benzene	98-95-3	34	64	103	97	
Nitro Methane	75-52-5	15	19			35
N-Methyl-2-Pyrrolidone	872-50-4	76	91	170	86	
N-Octanol	111-87-5	>480	>480	>480	>480	>480
N-Pentane	109-66-0	9	22			
"Octane (Petrol Or Gasoline)"	111-65-9	16	51	40	27	21
Oleic Acid	112-80-1	>480	>480	>480	>480	
Olive Oil	8001-25-0	>480	>480	>480	>480	
Ortho Phosphoric Acid (85%)	7664-38-2	>480	>480	>480	>480	>480
Oxalic Acid	144-62-7	>480	>480	>480	>480	
Perchloric Acid (60%)	7601-90-3	>480	>480	>480	>480	
Phenol (76% In H2O)	108-95-2					
Phenol (90%)	108-95-2	>480	>480	>480	>480	>480
Phtalic Acid Dibutyl Ester	84-74-2	>480	>480	>480	>480	
"Potassium Hydroxide (Caustic Potash)(Saturated)"	1310-58-3					
"Potassium Hydroxide (Caustic Potash) 40%"	1310-58-3	>480				>480
"Potassium Hydroxide (Caustic Potash) 45%"	1310-58-3	>480	>480	>480	>480	>480
"Potassium Hydroxide (Caustic Potash) 50%"	1310-58-3	>480	>480	>480	>480	
"Propetamphos (Safrotin)(50% In Roh)"	31218-83-4	>480	>480	>480	>480	
"Propoxy Diethylene Glycol (Propyl Carbitol Solvent) (Diethylene Glycol Monopropyl Ether)"	6881-94-3	>480	>480	>480	>480	
Propyl Acetate	109-60-4	9	17	17	16	
Propyl Cellosolve Solvent	2807-30-9	>480	>480	>480	>480	
"Propylene Glycol Monobutyl Ether (Butyl Propasol Solvent)"	5131-66-8	>480	>480	>480	>480	
Pyridine	110-86-1	10	12			
"Sodium Hydroxide (Caustic Soda) (40%)"	1310-73-2	>480	>480	>480	>480	>480
"Sodium Hypochlorite (6-12%) (Bleach)"	7681-52-9	>480	>480	>480	>480	
Styrene	100-42-5	12	24			
Sulphuric Acid (30%)	7664-93-9	>480	>480	>480	>480	
Sulphuric Acid (47%)	7664-93-9	>480	>480	>480	>480	
Sulphuric Acid (Con. 96- 98%)	7664-93-9	71	109	160	47	103
Tannic Acid (65%)	1401-55-4	>480	>480	>480	>480	
Tert- Butyl Amine	75-64-9	72	150			
Tetrachloroethylene	127-18-4	11	16			6
Tetrahydrofurane	109-99-9	11	14	15	12	10
Toluene	108-88-3	13	12	16	11	15
Toluene Extra Pure	108-88-3					
"Trichloroethane (Genklene)"	79-00-5	14	15			
Trichloroethylene	79-01-6	5	18	5	6	
Tricresyl Phosphate (Tcp)	1330-78-5	>480	>480	>480	>480	
Triethanolamine (Tea)	120-71-6	>480	>480	>480	>480	>480
Unleaded Petrol	111-65-9	16	51	40	54	8
Xylene	1330-20-7	20	24	7	16	

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PERMEATION BREAKTHROUGH TIMES
ACCORDING TO EN374-3:2003

Oikean kemikaalisuojan valitseminen on tärkeää sekä myös vaikeaa, kun kyse on käsineistä. Taulukko antaa suosituksen mikä materiaali ja mikä käsine antaa parhaan suojan erilaisia kemikaaleja vastaan. Joka vuosi tulee paljon uusia kemikaaleja. Jos oikean kemikaalisuojan valinnasta on epävarmuutta, on aina parempi olla meihin yhteydessä.

< 10 MINUTES
10 - 60 MINUTES
60 - 240 MINUTES
240 > 480 MINUTES

CHEMICAL DESIGNATION CHEMICAL NAME	CAS	PRODUCT DESIGNATION				
		GUIDE 4011 Nitrile	GUIDE 4012 Latex/Neoprene	GUIDE 4013 Neoprene	GUIDE 4015 Nitrile	GUIDE 4016 Latex
1-methoxy-2-propanol	107-98-2	>120	>10	>30	>30	<10
1-methoxy-2-propylacetate	108-65-6	>60	>10	>10	>10	<10
Acetic Acid 99%	64-19-7	>120	>240	>480	>30	>60
Acetone	67-64-1	<10	>30	>30	<10	>10
Acetonitrile	75-05-8	<10	>10	>30	<10	<10
Acrylic acid	79-10-7	>10	>60	>60	<10	>30
Acrylonitrile	107-13-1	<10	>10	>10	<10	<10
Allyl alcohol	107-18-6	>30	>30	>120	>30	<10
Ammonia 10%	1336-21-6	>480	>240	>240	>240	>120
Ammonia Acetate	631-61-8	>480	>480	>480	>480	>480
Ammonia Chloride	12125-02-9	>480	>480	>240	>480	>480
Ammonia hydroxide 25%	1336-21-6	>480	>480	>480	>480	>480
Benzene	71-43-2	>10	<10	<10	>10	<10
Benzoylchloride	98-88-4	>10	<10	<10	<10	<10
Biphenol A	80-05-7	>480	>480	>480	>480	>480
Bromopropionic acid	590-92-1	>480	>480	>480	>480	>120
Butyl acetate	123-86-4	>30	<10	>10	<10	<10
Butyl alcohol	71-36-3	>480	>480	>480	>480	>30
Butylglycol	111-76-2	>240	>60	>120	>10	<10
Calcium Chloride	10043-52-4	>240	>240	>480	>240	>240
Calcium Hydroxide	1305-62-0	>240	>240	>480	>240	>240
Calcium Hypochlorite	7778-54-3	>240	>480	>480	>240	>240
Calcium Nitrate	10124-37-5	>480	>480	>240	>480	>240
Carbon disulfide	75-15-0	<10	<10	<10	<10	<10
Carbon Tetra Chloride	56-23-5	>120	<10	<10	>120	>30
Chloroform	865-49-6	<10	<10	<10	<10	>10
Citric Acid (Pure)	77-92-9	>480	>480	>480	>480	>480
Coal tar	8007-45-2	>480	>10	>10	>480	<10
Crude oil	8002-05-9	>480	>10	>10	>480	<10
Cyclo-hexane	110-82-7	>480	>10	>30	>480	>60
Cyclo-Hexanol	108-93-0	>480	>480	>480	>480	>240
Cyclohexanone	108-94-1	>30	>30	>30	<10	<10
Dibutyl Phtalate	84-74-2	>480	>60	>60	>480	<10
Diesel Oil	68334-30-5	>480	>60	>240	>240	<10
Diethylamine	109-89-7	>30	<10	<10	<10	>10
Diethylether	60-29-7	>60	<10	<10	>60	<10
Dimethyl sulfoxide	67-68-5	>120	>480	>480	>10	>240
Dimethylformamide	68-12-2	>10	>30	>30	<10	>30
Distillate hydrotreated light	64742-47-8	>480	>10	>10	>480	<10
DOP	117-84-0	>480	>480	>480	>480	>480
Ethanol	64-17-5	>60	>30	>240	>60	>60
Ethyl acetate	141-78-6	>10	<10	>10	<10	<10
Ethylamine	75-04-7	>60	>60	>60	>30	<10
Ethylbenzene	100-41-4	<10	<10	<10	<10	<10
2-Ethoxyethanol	110-80-5	>480	>240	>60	>60	>480
Ethylene Glycol	107-21-1	>480	>480	>480	>480	>480
Ethylglycol acetate	111-15-9	>60	>30	>30	>10	<10
Formaldehyde 30%	50-00-0	>480	>480	>480	>480	>480
Formic Acid 90%	64-18-6	>60	>240	>480	>60	>120
Freon TF	76-13-1	>480	>10	>10	>60	<10
Gamma Butyrolactone	96-48-0	<10	>120	>120	<10	>120
Gasoline	8006-61-9	>120	<10	>10	>60	<10
Glutaraldehyde 50%	111-30-8	>480	>480	>480	>480	>480
Glycerine	56-81-5	>480	>480	>480	>480	>480
Diethylene Glycol	111-46-6	>480	>480	>480	>480	>480
Heptane	142-82-5	>480	<10	>30	>480	<10
Hexamethyldisilazane	999-97-3	>480	>30	>30	>120	>10

CHEMICAL DESIGNATION		PRODUCT DESIGNATION				
CHEMICAL NAME	CAS	GUIDE 4011 Nitrile	GUIDE 4012 Latex/Neoprene	GUIDE 4013 Neoprene	GUIDE 4015 Nitrile	GUIDE 4016 Latex
Hexane	110-54-3	>480	>10	>60	>240	>10
Hydrochloric Acid (30%)	7647-01-0	>240	>480	>480	>240	>120
Hydrofluoric Acid (14%)	7664-39-3	>480	>480	>480	>480	>480
Hydrogen Peroxide 31%	7722-84-1	>480	>120	>480	>480	>480
Iso-Octane	540-84-1	>480	>60	>120	>480	>10
Iso-Propanol	67-63-0	>480	>60	>240	>480	>60
Isophorone	78-59-1	>120	>10	>30	>10	<10
Kerosene	8008-20-6	>480	>480	>120	>480	>60
Maleic acid	110-16-7	>480	>480	>480	>480	>480
Methanol	67-56-1	>60	>240	>60	>30	>120
Methylene Chloride	75-09-2	<10	<10	>10	<10	<10
Methylethylketone (MEK)	78-93-3	<10	>10	>10	<10	>10
Methyl Isobutyl Ketone	108-10-1	>10	<10	>10	<10	<10
Methyl acrylate	96-33-3	<10	<10	<10	<10	<10
Methylamine 40%	74-89-5	>480	>480	>480	>10	<10
Methyl Methacrylate	80-62-6	>10	<10	<10	<10	<10
Methyl-t-butyl ether	1634-04-4	>480	<10	<10	>60	<10
Mineral oil	8012-95-1	>480	>10	>10	>120	<10
Monochlorobenzene	108-90-7	<10	<10	<10	<10	<10
Monoethanolamine	141-43-5	>480	>480	>480	>480	>480
Naptha VM&P	8030-30-6	>60	>10	>30	>30	<10
Naptha desulfurize heavy	64742-82-1	>240	>10	>10	>10	<10
Naptha hydrotreated light	64742-49-0	>240	>10	>10	>120	<10
Nitric Acid 20%	7697-37-2	>480	>480	>480	>480	>480
Nitrobenzene	98-95-3	>60	<10	<10	>10	<10
N-methyl-2-pyrrolidone	872-50-4	>10	>10	>10	<10	<10
Octane	111-65-9	>480	>30	>30	>480	>10
Oleic Acid	112-80-1	>480	>480	>480	>480	>480
Oxalic Acid (Pure)	144-62-7	>480	>480	>480	>480	>480
Paraffin oil	8012-95-1	>480	>480	>480	>480	>480
Peracetic acid 39%	79-21-0	>30	>240	>480	>10	>10
Perchloroethylene	127-18-4	>120	<10	>10	>10	<10
Phenol	108-95-2	>30	>240	>480	<10	>60
Phosphoric Acid (85%)	7664-38-2	>480	>480	>480	>480	>480
Propanol	71-23-8	>480	>480	>480	>30	>60
Propionitrile	107-12-0	<10	>10	>60	<10	<10
Propylacetate	109-60-4	>10	<10	<10	<10	<10
Propylene glycol	57-55-6	>480	>480	>480	>60	>480
Potassium Nitrate	7757-79-1	>480	>480	>30	>480	>60
Potassium Phosphate	7758-11-4	>480	>480	>480	>480	>480
Pinerazine aq solution	110-85-0	>240	>480	>480	>240	>480
Pyridine	110-86-1	<10	<10	<10	<10	<10
Sodium Carbonate	497-19-8	>480	>480	>480	>480	>480
Sodium Nitrate	7631-99-4	>480	>480	>30	>480	>60
Sodium Sulphate	7757-82-6	>480	>480	>480	>480	>480
Sodium Hydroxide 50%	1310-73-2	>480	>480	>480	>480	>480
Sodium Hypochlorite 10%	7681-52-9	>120	>120	>240	>240	>120
Tri Sodium Phosphate	7601-54-9	>480	>480	>480	>480	>480
Stoddard solvent	8052-41-3	>480	>120	>240	>480	<10
Styrene	100-42-5	>10	<10	<10	<10	<10
Sulphuric Acid 96%	7664-93-9	>60	>120	>60	>30	>30
Tetrahydrothiophene	110-01-0	>10	<10	<10	<10	<10
Tetrahydrofuran (THF)	109-99-9	<10	<10	<10	<10	<10
Thionylchloride	7719-09-7	<10	<10	<10	<10	<10
Toluene	108-88-3	>30	<10	>10	<10	<10
Trichloroethylene	79-01-6	>10	<10	<10	<10	<10
Tricresyl phosphate	1330-78-5	>480	>480	>480	>480	>480
Triethanolamine	102-71-6	>480	>480	>480	>60	>480
Triethylamine	121-44-8	>480	<10	>10	>60	<10
White spirit	64742-88-7	>480	>30	>60	>240	<10
Xylene	1330-20-7	>30	<10	>10	<10	<10