

CHEMICAL PROTECTION

PERMEATION BREAKTHROUGH TIMES ACCORDING TO EN ISO 374-1:2016

● <10 MINUTES
 ● 10 - 60 MINUTES
 ● 60 - 240 MINUTES
 ● 240 - 480 MINUTES

CHEMICAL DESIGNATION		PRODUCT DESIGNATION			
CHEMICAL NAME	CAS	GUIDE 137 PVC	GUIDE 907 PVC	GUIDE 143 PVC	GUIDE 146 PVC
1,2 DICHLORO ETHANE	107-06-2	4	13	11	11
1,2-DICHLORETHAN REINCS	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
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
ACETONE	67-64-1	12	11	10	11
ACETONITRILE	75-05-8	11	16	20	25
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
AMYL ACETATE	628-63-7	18	29		
ANILINE	62-53-3	65	145	230	173
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
CARBONDISULFIDE	75-15-0	5	6	8	6
CASTOR OIL (RICINUS OIL)	8001-79-4	>480	>480	>480	>480
CHLORO BENZENE	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		
CYCLOHEXANOL	108-93-0	>480	>480	>480	>480
DIACETONE ALCOHOL	123-42-2	>480	>480	>480	>480
DI-BUTLY PHTHALATE (D.B.P)	84-74-2	>480	>480	>480	>480
DIESEL	77650-28-3	>480	>480	>480	>480
DIETHANOLAMINE	111-42-2	>480	>480	>480	>480
DIETHYL ETHER (ETHYL ETHER)	60-29-7	4	5	9	7
DIETHYLAMINE	109-89-7	4	9	13	11
DIETHYLENE GLYCOL MONOHEXYL ETHER (HEXYLCARBITOL SOLVENT)	112-59-4	>480	>480	>480	>480
DIETHYLENE GLYCOL MONOMETHYL ETHER (METHYLCARBITOL SOLVENT)	111-77-3	>480	>480	>480	>480
DH-ISOBUTYL KETONE	108-83-8	>480	>480	>480	>480
DIMETHYL SULFATE	77-78-1	157		100	
DIMETHYLACETAMIDE	127-19-5				

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● <10 MINUTES
 ● 10 - 60 MINUTES
 ● 60 - 240 MINUTES
 ● 240 - 480 MINUTES

CHEMICAL DESIGNATION		PRODUCT DESIGNATION			
CHEMICAL NAME	CAS	GUIDE 137 PVC	GUIDE 907 PVC	GUIDE 143 PVC	GUIDE 146 PVC
DIMETHYL FORMAMIDE (DMF)	68-12-2	14	27	39	34
DIOCTYL 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
ETHYL ACETATE	141-78-6	13	13	11	15
ETHYL ALCOHOL (ETHANOL)(90%)	64-17-5	26	42	45	40
ETHYL BUTANOL	97-95-0	>480	>480	>480	>480
ETHYLENE GLYCOL	107-21-1	>480	>480	>480	>480
ETHYLENE GLYCOL MONOPROPYL ETHER (PROPYL CELLOSOLVE SOLVENT)	2807-30-9	>480	>480	>480	>480
FORMALDEHYDE (37%)	50-00-0	>480	>480	>480	>480
FORMIC ACID (90%)	64-18-6	>480	>480	>480	>480
FURFURAL	98-01-1	26	45	65	50
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
HYDRAZINE HYDRATE (85%)	302-01-2	>480	>480	>480	>480
HYDROCHLORIC ACID (10%)	7647-01-0	>480	>480	>480	>480
HYDROCHLORIC ACID (30%)	7647-01-0	>480	>480	>480	>480
HYDROCHLORIC ACID (37%)	7647-01-0	95		>480	>480
HYDROGEN PEROXIDE	7722-84-1	>480	>480	>480	>480
HYDROGEN PEROXIDE (30 %)	7722-84-1	>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		
ISOAMYL ALCOHOL	123-51-3	45	80		
ISOPARRAFFIN H	90622-57-4	227			
KEROSENE	8008-20-6	>480	>480	>480	>480
LACTIC ACID (85%)	50-21-5	>480	>480	>480	>480
MALEIC ACID	110-16-7	>480	>480	>480	>480
METHANOL (METHYL ALCOHOL)	67-56-1	50	31	36	8
METHOXY TRIGLYCOL	112-35-6	>480	>480	>480	>480
METHYL ACETATE	79-20-9	4	11		
METHYL ACRYLATE	96-33-3	3	11		
METHYL AMINE (40%)	74-89-5	>480	>480	>480	>480
METHYL ETHYL KETONE (2-BUTANONE) (MEK)	78-93-3	4	10		
METHYL METHACRYLATE	80-62-6	4	9		
METHYLENE CHLORIDE (DI CHLORO METHANE)	75-09-2	5	6	9	6
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
N-HEPTANE	142-82-5	23	63	39	39

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CHEMICAL NAME	CAS	GUIDE 137 PVC	GUIDE 907 PVC	GUIDE 143 PVC	GUIDE 146 PVC
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		
NITRO BENZENE	98-95-3	34	64	103	97
NITRO METHANE	75-52-5	15	19		
N-METHYL-2-PYRROLIDONE	872-50-4	76	91	170	86
N-OCTANOL	111-87-5	>480	>480	>480	>480
N-PENTANE	109-66-0	9	22		
OCTANE (PETROL OR GASOLINE)	111-65-9	16	51	40	27
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
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
PHTHALIC 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			
POTASSIUM HYDROXIDE (CAUSTIC POTASH) 45%	1310-58-3	>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
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
TANNIC ACID (65%)	1401-55-4	>480	>480	>480	>480
TERT- BUTYL AMINE	75-64-9	72	150		
TETRACHLOROETHYLENE	127-18-4	11	16		
TETRAHYDROFURANE	109-99-9	11	14	15	12
TOLUENE	108-88-3	13	12	16	11
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
UNLEADED PETROL	111-65-9	16	51	40	54
XYLENE	1330-20-7	20	24	7	16

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 ● 10 - 60 MINUTES
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CHEMICAL DESIGNATION		PRODUCT DESIGNATION				
CHEMICAL NAME	CAS	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	>60	>30	>240	>30	>60
ACETONE	67-64-1	<10	>10	>10	<10	>10
ACETONITRILE	75-05-8	<10	>10	>30	<10	<10
ACRYLIC ACID	79-10-7	>30	>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	>120	>240	>240	>120
AMMONIA 25%	1336-21-6	>480		>120	>60	
AMMONIA ACETATE 50%	631-61-8	>480	>480	>480	>480	>480
AMMONIA CHLORIDE	12125-02-9	>480	>480	>480	>480	>480
AMMONIA HYDROXIDE 25%	1336-21-6	>480	>480	>480	>480	>480
AMMONIUM NITRATE 50%	6484-52-2	>480	>480	>480	>240	>60
BENZENE	71-43-2	>10	<10	<10	>10	<10
BENZOYL CHLORIDE	98-88-4	>10	<10	<10	<10	<10
BISPHENOL A	80-05-7	>480	>480	>480	>480	>480
3-BROMOPROPIONIC ACID	590-92-1	>480	>480	>480	>480	>120
BUTYL ACETATE	123-86-4	>60	<10	>10	>30	<10
BUTYL ALCOHOL	71-36-3	>480	>60	>480	>480	>30
BUTYLGLYCOL	111-76-2	>240	>60	>120	>120	<10
CALCIUM CHLORIDE 50%	10043-52-4	>480	>480	>480	>240	>240
CALCIUM HYDROXIDE 50%	1305-62-0	>480	>480	>480	>240	>240
CALCIUM HYPOCHLORITE	7778-54-3	>480	>480	>480	>240	>240
CALCIUM NITRATE 50%	10124-37-5	>480	>480	>480	>480	>240
CARBON DISULFIDE	75-15-0	<10	<10	<10	<10	<10
CARBON TETRA CHLORIDE	56-23-5	>120	<10	<10	>120	>30
CHLOROFORM-D	865-49-6	<10	<10	<10	<10	>10
CITRIC ACID 50%	77-92-9	>480	>480	>480	>480	>480
COAL TAR	8007-45-2	>480	>10	>10	>240	<10
CRUDE OIL	8002-05-9	>480	>10	>10	>240	<10
CYCLO-HEXANE	110-82-7	>480	>10	>30	>480	>10
CYCLO-HEXANOL	108-93-0	>480	>480	>480	>480	>240
CYCLOHEXANONE	108-94-1	>30	>30	>30	<10	<10
DIBUTYL PHTHALATE	84-74-2	>480	>30	>60	>480	<10
DIESEL OIL	68334-30-5	>480	>30	>240	>240	<10
DIETHYLAMINE	109-89-7	>10	<10	<10	<10	>10
DIETHYLETHER	60-29-7	>30	<10	<10	>30	<10
DIMETHYL SULFOXIDE (DMSO)	67-68-5	>120	>480	>480	>30	>240
DIMETHYLFORMAMIDE (DMF)	68-12-2	>10	>60	>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	>60	>240	>60	>60
ETHYL ACETATE	141-78-6	>10	<10	>10	<10	<10
ETHYLAMINE	75-04-7	>60	>30	>60	>30	<10
ETHYLBENZENE	100-41-4	<10	<10	<10	<10	<10
ETHYLENE GLYCOL	107-21-1	>480	>480	>480	>480	>480
ETHYLGLYCOL ACETATE	111-15-9	>60	>10	>30	>10	<10
FORMALDEHYDE 30%	50-00-0	>480	>480	>480	>480	>480
FORMIC ACID 90%	64-18-6	>30	>120	>480	>10	>120
FREON 113	76-13-1	>480	>10	>10	>60	<10
GAMMA BUTYROLACTONE	96-48-0	<10	>120	>120	<10	>120

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CHEMICAL NAME	CAS	GUIDE 4011 Nitrile	GUIDE 4012 Latex/Neoprene	GUIDE 4013 Neoprene	GUIDE 4015 Nitrile	GUIDE 4016 Latex
GASOLINE	8006-61-9	>120	<10	>10	>60	<10
GLUTARALDEHYDE 50%	111-30-8	>480	>480	>480	>480	>480
GLYCEROL	56-81-5	>480	>480	>480	>480	>480
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
HEXANE	110-54-3	>480	>10	>30	>480	>10
HYDROCHLORIC ACID (30%)	7647-01-0	>480	>480	>480	>240	>480
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	>30	>120	>480	>10
ISO-PROPANOL	67-63-0	>480	>60	>240	>120	>60
ISOPHORONE	78-59-1	>120	>10	>30	>30	<10
KEROSENE	8008-20-6	>480	>60	>120	>480	>60
MALEIC ACID	110-16-7	>480	>240	>480	>480	>480
METHANOL	67-56-1	>30	>30	>60	>10	>30
METHYLENE CHLORIDE (DCM)	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	>30	>240	>60	<10
METHYL METHACRYLATE	80-62-6	>10	<10	<10	<10	<10
METHYL-T-BUTYL ETHER	1634-04-4	>480	<10	<10	>120	<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
NAPHTHA VM&P	8030-30-6	>60	>10	>30	>30	<10
NAPHTHA DESULFURIZE HEAVY	64742-82-1	>240	>10	>10	>10	<10
NAPHTHA HYDROTREATED LIGHT	64742-49-0	>240	>10	>10	>30	<10
NITRIC ACID 20%	7697-37-2	>480	>480	>480	>480	>480
NITRIC ACID 65%	7697-37-2			>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	>10	>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	>60	>120	>240	>30	>10
PERCHLOROETHYLENE	127-18-4	>120	<10	>10	>30	<10
PERCHLORIC ACID 70%	7601-90-3	>120	>240	>480	>30	>240
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	>120	>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 50%	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 50%	7631-99-4	>480	>480	>480	>480	>60

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CHEMICAL DESIGNATION		PRODUCT DESIGNATION				
CHEMICAL NAME	CAS	GUIDE 4011 Nitrile	GUIDE 4012 Latex/Neoprene	GUIDE 4013 Neoprene	GUIDE 4015 Nitrile	GUIDE 4016 Latex
SODIUM SULPHATE 50%	7757-82-6	>480	>480	>480	>480	>480
SODIUM HYDROXIDE 40%	1310-73-2	>480	>480	>480	>480	>480
SODIUM HYPOCHLORITE 10%	7681-52-9	>120	>120	>480	>120	>240
SODIUM PHOSPHATE	7601-54-9	>480	>480	>480	>480	>480
STODDORD 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	>240	>240	>30	>240
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	>10	<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	>120	>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