

Tychem® QC Permeation Test Data

Chemical Name	Concentration	Breakthrough Time	Permeation Rate	SDL
	(%)	Normalized (min)	(ug/cm ² /min)	(ppm)
2,2,2-TRIFLUOROETHANOL	95+	imm.	high	
2-CHLOROETHANOL	95+	imm.	3.1	
ACETIC ACID	95+	imm.	3	
ACETONE	95+	imm.	10	
ACETONITRILE	95+	imm.	16	
ACRYLIC ACID	95+	imm.	3	
ACRYLONITRILE	95+	382	0.18	
AMMONIA GAS	95+	imm.	3.1	
AMMONIUM HYDROXIDE	28-30	imm.	62	
ANILINE	95+	imm.	2.1	
BROMINE	95+	imm.	high	
BUTADIENE 1,3-	95+	imm.	12	
BUTANOL N-	95+	imm.	1.6	
BUTYRALDEHYDE	95+	imm.	22	
CARBON DISULFIDE	95+	imm.	high	
CHLORINE GAS	95+	imm.	>50	
CHLORINE GAS (20ppm)	20 ppm	>480*	nd	
CHLOROACETIC ACID (75-80%)	75	370	1	
CHLOROFORM	95+	imm.	350	
CHROMIC ACID	60	>480	<0.1	
CRESOL, MIXED ISOMERS	95+	40	0.4	
CRESOLS	95+	37	0.43	
CRUDE OIL	95+	imm.	3.3	
DICHLOROMETHANE	95+	imm.	>50	
DIETHYLAMINE	95+	imm.	64	
DIISOCYANATOHEXANE	95+	>480	<0.024	
DIMETHYLFORMAMIDE N,N-	95+	imm.	0.72	
ETHYL ACETATE	95+	imm.	13	
ETHYLENE DIAMINE	95+	201	2.9	
ETHYLENE GLYCOL	95+	>480	<0.1	
ETHYLENE OXIDE GAS	95+	imm.	167	
FORMALIN, 10%	10	>480	0.003	
FORMALIN, 10%	37	imm.	31	
FORMIC ACID	95+	imm.	0.33	
FUEL OIL	95+	imm.	1.8	
GLUTERALDEHYDE, 5%	5	>480	<0.02	
HEXAMETHYLENE DIISOCYANATE IN DUPONT ACTIVATOR 193S	mixture	>480	<0.1	
HEXAMETHYLENE DIISOCYANATE IN DUPONT ACTIVATOR 4505S	mixture	>480	<0.1	
HEXAMETHYLENE DIISOCYANATE IN DUPONT ACTIVATOR 4507S	mixture	>480	<0.1	
HEXANE	95+	imm.	high	
HYDROCHLORIC ACID	37	86	1.1	
HYDROFLUORIC ACID	48	>480	0.08	

HYDROGEN CHLORIDE GAS	95+	imm.	9.3	
HYDROGEN CYANIDE LIQUID	95+	60*	0.11	
HYDROGEN FLUORIDE GAS	95+	imm.	6	
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HYDROGEN PEROXIDE, 30%	30	>480	<0.1	
HYDROGEN PEROXIDE, 70%	70	>480	<0.01	
IODINE	95+	440	30	
LITHIUM CHLORIDE	20	>480	<0.1	
LITHIUM HYDROXIDE	20	>480	<0.1	
METHANOL	95+	imm.	2.2	
METHYL CHLORIDE	95+	imm.	0.23	
MINERAL SPIRITS	95+	imm.	nm	
NITRIC ACID, 70%	70	410	0.7	
NITROBENZENE	95+	imm.	18	
O-CRESOL	95+	37	0.43	
OLEUM (40% free SO ₃)	40% free SO ₃	398	0.2	
o-NITROCHLOROGENZENE	95+	15	4.1	
PCB 1254	95+	55	36	
PHENOL	85	imm.	0.4	
p-NITROCHLOROGENZENE	95+	imm.	2.3	
p-NITROTOLUENE	95+	imm.	14	
POTASSIUM CYANIDE	10	>480	<0.1	
POTASSIUM PERMANGANATE	95+	>480	<0.1	
SODIUM HYDROXIDE, 50%	50	>480	<0.1	
SODIUM HYDROXIDE, sat. solution in water	saturated	>480	<0.1	
SODIUM HYPOCHLORITE, 17%	17	>480	<0.1	
SODIUM HYPOCHLORITE, 5.25%	5.25	>480	<0.1	1
SULFUR DIOXIDE	95+	imm.	>29	
SULFURIC ACID	95+	>480	<0.1	
TETRACHLOROETHYLENE	95+	imm.	high	
TETRAHYDROFURAN	95+	imm.	183	
TOLUENE	95+	imm.	503	
TOLUENE DIISOCYANATE	95+	imm.	42	
TOLUIDINE O-	95+	imm.	1	
TRICHLOROGENZENE	95+	imm.	8.4	