

CH-761 耐 溶 劑 手 套

	SOL-VEX® NITRILE NBR			NEOPRENE UNSUPPORTED			NEOX® SUPPORTED NEOPRENE			PVA SUPPORTED POLYVINYL ALCOHOL			POVYVINYL CHLORIDE PVC			NATURAL RUBBER		
	Degradation	Permeation	Permeation	Degradation	Permeation:	Permeation:	Degradation	Permeation :	Permeation:	Degradation	Permeation :	Permeation:	Degradation	Permeation :	Permeation:	Degradation	Permeation :	Permeation:
1.Acetaldehyde	P	-	-	E	10 min	P	E	17 min	P	NR	-	-	NR	-	-	E	7 min	F
2.Acetic Acid,Glacial	G	4½ hr	-	E	7 hr	-	E	>6 hr	-	NR	-	-	F	3 hr	-	E	2¼ hr	-
3.Acetone	NR	-	-	G	5 min	F	G	10 min	F	P	-	-	NR	-	-	E	10 min	F
4.Acetonitrile	F	30 min	F	E	30 min	VG	E	1½ hr	E	-	1 hr	E	NR	-	-	E	4 min	VG
5.Acrylic Acid	G	2 hr	-	G	11/6 hr	-	F	ND	E	NR	-	-	NR	-	-	NR	35 min	-
6.Ammonium Fluoride,40%	E	ND	-	E	ND	-	E	ND	-	NR	-	-	E	ND	-	E	ND	-
7.Ammonium Hydroxide, Conc.	E	ND	-	E	>6 hr	-	E	ND	-	NR	-	-	E	4 hr	-	E	1¾ hr	-
8.Amyl Acetate	E	60 min	G	NR	-	-	NR	-	-	G	ND	E	P	-	-	P	-	-
9.Amyl alcohol	E	30 min	E	E	>6 hr	E	E	ND	E	G	3½ hr	E	G	12 min	E	E	7 min	VG
10.Aniline	NR	-	-	G	35 min	VG	G	3 hr	VG	F	3 hr	VG	F	3 hr	VG	G	30 min	VG
11.Aqua Regia	F	ND	-	G	45 min	-	G	ND	-	NR	-	-	G	2 hr	-	G	ND	-
12.Benzaldehyde	NR	-	-	NR	-	-	NR	-	-	G	ND	E	NR	-	-	F	14 min	G
13.Benzene,Benzol	P	-	-	NR	-	-	NR	-	-	E	7 min	E	NR	-	-	NR	-	-

14. Bromopropionic Acid	F	2 hr	-	G	3 hr	-	G	4 hr	-	NR	-	-	G	3 hr	-	G	3½ hr	-
15. Butyl Acetate	F	1¼ hr	F	NR	-	-	NR	-	-	G	ND	E	NR	-	-	P	-	-
16. Getyl Alcohol	E	ND	E	E	4 hr	VG	E	>8 hr	E	F	30 min	G	G	3 hr	G	E	15 min	G
17. Butyl Cellosolve®	E	1½ hr	VG	E	1½ hr	VG	E	ND	E	-	10 min	G	P	-	-	E	45 min	G
18. γ-Butyrolactone	NR	-	-	E	10 min	VG	G	-	-	E	10 min	VG	NR	-	-	E	60 min	G
19. Carbon Disulfide	G	30 min	F	NR	-	-	NR	-	-	E	ND	E	NR	-	-	NR	-	-
20. Carbon Tetrachloride	G	2½ hr	G	NR	-	-	NR	-	-	E	ND	E	F	25 min	F	NR	-	-
21. Cellosolve®Acetate	F	1½ hr	G	F	25 min	G	G	1¼ hr	VG	-	40 min	VG	NR	-	-	G	11 min	G
22. Cellosolve®Solvent	G	3½ hr	G	E	45 min	E	E	4 hr	E	-	1¼ hr	G	P	-	-	E	45 min	G
23. Chlorobenzene	NR	-	-	NR	-	-	NR	-	-	E	15 min	G	NR	-	-	NR	-	-
24. Chloroform	NR	-	-	NR	-	-	NR	-	-	E	ND	E	NR	-	-	NR	-	-
25. Chloronaphthalene	P	-	-	NR	-	-	NR	-	-	G	ND	E	NR	-	-	NR	-	-
26. Chlorothene®VG	F	1½ hr	P	NR	-	-	NR	-	-	G	1 hr	E	NR	-	-	NR	-	-
27. Chromic Acid,50%	F	4 hr	-	NR	-	-	NR	-	-	NR	-	-	G	ND	-	NR	-	-
28. Citric Acid,10%	E	ND	-	E	ND	-	E	ND	-	F	50 min	-	E	ND	-	E	ND	-
29. Cyclohexanol	E	ND	E	E	2½ hr	VG	E	3 hr	E	G	6 hr	E	E	6 hr	E	E	15min	G
30. Diacetone Alcohol	G	4 hr	E	E	5 hr	E	E	ND	E	-	2 hr	VG	NR	-	-	E	20 min	VG
31. Dibutyl Phthalate	G	ND	E	F	2 hr	E	F	5 hr	VG	E	ND	E	NR	-	-	G	17 min	-
32. Diethylamine	F	45 min	F	P	-	-	P	-	-	NR	-	-	NR	-	-	NR	-	-

33.Di-Isobutyl Ketone,DIBK	E	2 hr	F	P	-	-	P	-	-	G	ND	E	P	-	-	P	-	-
34.Dimethyl Acetamide,DMAC	NR	-	-	NR	-	-	NR	-	-	NR	-	-	NR	-	-	E	6 min	G
35.Dimethyl Formamide,DMF	NR	-	-	G	10 min	G	G	1 hr	G	NR	-	-	NR	-	-	E	30 min	F
36.Dimethyl Sulfoxide,DMSO	E	>4 hr	VG	E	ND	E	E	>3 hr	G	NR	-	-	NR	-	-	E	60 min	VG
37.Dioctyl Phthalate,DOP	G	>6 hr	E	G	>6 hr	E	G	2 hr	E	E	30 min	F	NR	-	-	F	>6 hr	E
38.Dioxane	NR	-	-	NR	-	-	NR	-	-	P	-	-	NR	-	-	F	5 min	F
39.Electroless Copper (MacDermid®9048)	E	ND	-	E	ND	-	E	ND	-	NR	-	-	E	ND	-	E	ND	-
40.Electroless Nickel (MacDermid® J60/61)	E	ND	-	E	ND	-	E	ND	-	NR	-	-	E	ND	-	E	ND	-
41.Epichlorohydrin	NR	-	-	P	-	-	F	10 min	F	E	16 min	VG	NR	-	-	E	3 min	F
42.Ethyl Acetate	NR	-	-	F	15 min	G	F	20 min	G	F	ND	E	NR	-	-	G	5 min	G
43.Ethyl Alcohol	E	4 hr	VG	E	1½ hr	VG	E	3 hr	VG	NR	-	-	G	1 hr	VG	E	30 min	VG
44.Ethylene dichloride	NR	-	-	NR	-	-	NR	-	-	E	>3 hr	VG	NR	-	-	P	-	-
45.Ethylene Glycol	E	ND	E	E	ND	E	E	ND	E	F	2 hr	VG	E	ND	E	E	ND	E
46.Ethyl Ether	E	2 hr	G	E	10 min	G	E	10 min	G	G	>6 hr	E	NR	-	-	NR	-	-
47.Ethyl Glycol Ether	G	3½ hr	G	E	45 min	E	E	4 hr	E	-	1¼ hr	-P	P	-	-	E	45 min	G
48.Formaldehyde	E	ND	E	E	2 hr	E	E	2 hr	VG	P	-	-	E	11/3 hr	VG	E	1 hr	VG
49.Formic Acid90%	F	4 hr	-	E	ND	-	E	ND	-	NR	-	-	E	>6 hr	-	E	2 hr	-
50.Freon®TMC	NR	-	-	NR	-	-	NR	-	-	G	ND	E	NR	-	-	NR	-	-
51.Freon®TF	E	ND	E	E	4 hr	E	E	2 hr	VG	G	30 min	VG	NR	-	-	E	15 min	G

52.Furfural	NR	-	-	G	20 min	G	G	3 hr	G	F	ND	E	NR	-	-	E	15 min	G
53.Gasoline(White)	E	ND	E	NR	-	-	NR	-	-	G	ND	E	P	-	-	NR	-	-
54. Hexamethyldisilazane	E	ND	-	E	50 min	-	E	60 min	-	G	ND	-	P	-	-	F	40 min	-
55.Hexane	E	ND	E	E	45 min	F	E	1½ hr	G	G	ND	E	NR	-	-	NR	-	-
56.Hydrazine65%	E	ND	-	E	ND	-	E	ND	-	NR	-	-	E	ND	-	G	ND	-
57.Hydrochloric Acid,Conc.	E	ND	-	E	ND	-	E	ND	-	NR	-	-	E	>5 hr	-	G	>5 hr	-
58.Hydrochloric Acid,10%	E	ND	-	E	ND	-	E	ND	-	NR	-	-	E	ND	-	E	ND	-
59.Hydrofluoric Acid,48%	E	2 hr	-	E	1 hr	-	E	1¼ hr	-	NR	-	-	G	40 min	-	G	3½ hr	-
60.Hydrogen Peroxide,30%	E	ND	-	E	5 min	-	E	7 min	-	NR	-	-	E	ND	-	E	ND	-
61.Hydroquinone, Saturated	E	ND	E	E	ND	E	E	ND	E	NR	-	-	E	ND	E	G	ND	E
62.Isobuty Alcohol	E	ND	E	E	10 min	E	E	ND	E	P	-	-	F	10 min	VG	E	25 min	G
63.Osp-Octane	E	6 hr	E	E	1 hr	GE	E	6 hr	E	E	40 min	VG	P	-	-	NR	-	-
64.Isopropyl Alcohol	E	ND	E	E	ND	E	E	ND	E	NR	-	-	G	2½ hr	E	E	70 min	E
65.Kerosene	E	ND	E	E	>6 hr	E	E	ND	E	G	ND	E	G	>6 hr	E	F	30 min	VG
66.Lactoc Acid,85%	E	ND	E	E	ND	E	E	ND	E	F	ND	E	E	ND	E	E	ND	E
67.Lauric Acid,36%/EtOH	E	ND	-	E	ND	-	E	ND	-	NR	-	-	F	15 min	-	G	ND	-
68.Maleic Acid, Sturated	E	ND	-	E	ND	-	E	ND	-	NR	-	-	G	ND	-	E	ND	-
69.Methyl Alcohol	E	11 min	F	E	1 hr	E	E	15 min	E	NR	-	-	G	45 min	G	E	13 min	E
70.Methylamine	E	ND	E	G	4½ hr	G	G	6 hr	E	NR	-	-	E	2¼ hr	VG	E	25 min	G
71.Methyl Cellosolve®	F	11 min	G	E	25 min	G	E	70 min	VG	G	6 min	G	P	-	-	E	4 min	VG
72.Methylene Bromide	NR	-	-	NR	-	-	NR	-	-	G	ND	E	NR	-	-	NR	-	-

73.Methylene Chloride	NR	-	-	NR	-	-	NR	-	-	G	17 min	E	NR	-	-	NR	-	-
74.Methyl Ethyl Ketone,MEK	NR	-	-	P	-	-	P	-	-	F	30 min	G	NR	-	-	G	10 min	P
75.Methyl Glycol Ether	F	11 min	G	E	25 min	G	E	70 min	VG	G	6 min	G	P	-	-	E	4 min	VG
76.Methyl Iodide	NR	-	-	NR	-	-	NR	-	-	F	50 min	E	NR	-	-	NR	-	-
77.Methyl Isobutyl Ketone, MIBK	P	-	-	NR	-	-	NR	-	-	F	ND	E	NR	-	-	F	6 min	F
78.Methyl Methacrylate	P	-	-	NR	-	-	NR	-	-	G	ND	E	NR	-	-	P	-	-
79.N-Methyl-2-Pyrrolidone,NMP	NR	-	-	NR	-	-	NR	-	-	NR	-	-	NR	-	-	E	45 min	G
80.Methyl t-Butyl Ether,MTBE	E	ND	E	P	-	-	P	-	-	G	ND	E	NR	-	-	NR	-	-
81.Mineral Spirits,Rule66	E	ND	E	G	1½ hr	VG	G	ND	E	E	ND	E	F	2½ hr	VG	NR	-	-
82.Monoethanolamine	E	ND	E	E	ND	E	E	ND	E	F	2½ hr	VG	E	ND	E	E	3½ hr	VG
83.Morpholine	NR	-	-	P	-	-	P	-	-	G	3 hr	E	NR	-	-	E	30 min	VG
84.Naphtha VM&P	E	ND	E	G	15 min	F	G	ND	E	E	>7 hr	E	F	2 hr	VG	NR	-	-
85.Nitric Acid,10%	E	ND	-	E	ND	-	E	ND	-	NR	-	-	G	ND	-	G	ND	-
86.Nitric Acid,70%	NR	-	-	G	21/3 hr	-	G	ND	-	NR	-	-	F	53/4 hr	-	Nr	-	-
87.Nitric Acid, Red Fuming	NR	-	-	NR	-	-	NR	-	-	NR	-	-	P	-	-	P	-	-
88.Nitrobenzene	NR	-	-	NR	-	-	NR	-	-	G	>6 hr	E	NR	-	-	F	5 min	G
89.Nitromethane95.5%	F	30 min	F	E	1 hr	VG	E	1½ hr	E	G	ND	E	P	-	-	E	4 min	E
90.Nitropropane95.5%	NR	-	-	G	5 min	F	G	1 hr	G	E	>6 hr	E	NR	-	-	E	5min	G
91.Octyl Alcohol	E	ND	E	E	7 hr	E	E	>7 hr	E	G	4 hr	E	F	>6 hr	E	E	1 hr	E

92.Oleic Acid	E	ND	E	E	1 hr	VG	E	2½ hr	E	G	1 hr	E	F	1½ hr	VG	F	30 min	VG
93.Oxalic Acid,Saturated	E	ND	-	E	ND	-	E	ND	-	P	-	-	E	ND	-	E	ND	-
94.Palmitic Acid,Saturated.	G	30 min	-	E	ND	-	E	ND	-	P	-	-	G	1¼ hr	-	G	5 min	-
95.Pentane	E	ND	E	E	30 min	F	E	45 min	VG	G	ND	E	NR	-	-	P	-	-
96.Pentachlorophenol	E	ND	E	E	6 min	E	E	6 min	E	E	7 min	F	F	3 hr	E	NR	-	-
97.perchloric Acid,60%	E	ND	-	E	ND	-	E	ND	-	NR	-	-	E	ND	-	F	ND	-
98.Perchloroethylene	G	5 hr	VG	NR	-	-	NR	-	-	E	5 hr	E	NR	-	-	NR	-	-
99.Phenol	NR	-	-	E	3 hr	G	E	>6½ hr	E	F	30 min	G	G	1¼ hr	VG	E	1 hr	G
100.Phosphoric Acid, Conc	E	ND	-	E	ND	-	E	ND	-	NR	-	-	G	ND	-	G	ND	-
101.Picric Acid,Sat./EtOH	E	22/3 hr	VG	E	2½ hr	VG	E	3 hr	VG	NR	-	-	E	40 min	VG	G	3 min	VG
102.Potassium Hydroxide,KOH,50%	E	ND	-	E	ND	-	E	ND	-	NR	-	-	E	ND	-	E	ND	-
103.Propyl Acetate	F	20 min	G	P	-	-	P	-	-	G	2 hr	VG	NR	-	-	F	5 min	F
104.Propyl Alcohol	E	ND	E	E	2½ hr	E	E	ND	E	P	-	-	F	1½ hr	VG	E	20 min	VG
105.Propylene Oxide	NR	-	-	NR	-	-	NR	-	-	G	35 min	G	NR	-	-	P	-	-
106.Pyridine	NR	-	-	NR	-	-	P	-	-	G	50 min	G	NR	-	-	F	5 min	F
107.Rubber Solvent	E	ND	E	G	30 min	G	G	1 hr	G	E	1½ hr	E	NR	-	-	NR	-	-
108.Silicon Etch	NR	-	-	G	ND	-	G	ND	-	NR	-	-	F	2½ hr	-	NR	-	-
109.Skydrol®hydraulic fluid	NR	-	-	NR	-	-	NR	-	-	F	-	-	NR	-	-	NR	-	-
110.Sodium Hydroxide NaOH,50%	E	ND	-	E	ND	-	E	ND	-	NR	-	-	G	ND	-	EN	D	-

111.Stoddard Solvent	E	ND	E	E	3 hr	VG	E	ND	E	E	ND	E	F	6 hr	E	NR	-	-
112.Styrene	NR	-	-	NR	-	-	NR	-	-	G	ND	E	NR	-	-	NR	-	-
113.Sulfuric Acid,95%	NR	-	-	F	3 hr	-	F	>6 hr	-	NR	-	-	G	32/3 hr	-	NR	-	-
114.Sulfuric47%battery acid	E	ND	-	E	ND	-	E	ND	-	NR	-	-	G	ND	-	E	ND	-
115.Tannic Acid,65%	E	ND	E	E	ND	E	E	ND	E	P	-	-	E	ND	E	E	ND	E
116.Tetrachloroethene	G	5 hr	VG	NR	-	-	NR	-	-	E	5 hr	E	NR	-	-	NR	-	-
117.Tetrahydrofuran, THF	NR	-	-	NR	-	-	NR	-	-	P	-	-	NR	-	-	NR	-	-
118.Toluene,Toluol	F	10 min	F	NR	-	-	NR	-	-	G	15 min	VG	NR	-	-	NR	-	-
119.Toluene Di- Isocyanate,TDI	NR	-	-	NR	-	-	NR	-	-	G	ND	E	P	-	-	NR	-	-
120.1,1,1- Trichloroethane	F	1½ hr	P	NR	-	-	NR	-	-	G	1 hr	E	NR	-	-	NR	-	-
121.Trichloroethylene, TCE	NR	-	-	NR	-	-	NR	-	-	E	30 min	E	NR	-	-	NR	-	-
122.Tricesyl Phosphate,TCP	E	ND	E	F	ND	E	F	ND	E	G	ND	E	F	ND	E	E	45 min	E
123.Triethanolamine 85%,TEA	E	ND	E	E	ND	E	E	ND	E	G	ND	E	E	ND	E	G	1 hr	E
124.Turpentine	E	30 min	E	Nr	-	-	Nr	-	-	G	6 hr	E	P	-	-	Nr	-	-
125.Xylene,Xylol	G	1¼ hr	F	NR	-	-	NR	-	-	E	ND	E	NR	-	-	NR	-	-

SPECIAL NOTE:

The chemicals in this Guide highlighted in are experimental carcinogens, according to the sixth edition of Sax' Dangerous Properties of Industrial Materials. Chemicals highlighted in are listed as suggested carcinogens, experimental carcinogens at extremely high dosages, and other materials which pose a lesser risk of cancer.