Chemical Resistance Guide

		SUPER NITRILE			
	CHEMICAL	EN 374-3 Class	Avg. BTT (min)	% degradation	Performance Rating
10	1. Acetaldehyde, 99.5%			-	Р
	2. Acetic Acid, 99+%	3	80	19	G
	3. Acetone, 99.5%	-	-	in the second se	NR
	4. Acetonitrile, 99%	2	<15	16	G
	5. Acrylic Acid, 99%	3	75	29	F
	6. Ammonium Flouride, 40%	6	>480	2	E
	7. Ammonium Hydroxide, 85%	5	320	1	G
	8. Amyl Acetate, 100%	4	183	4	E
10	9. Amyl Alcohol, 99+%	6	>480	1	E
· · · ·	10. Aniline, 99+%		100	ter and the state	NR
	11. Aqua Regia	5	280	6	E
	12. Benzaldehyde, 99.5%		200	Annata ann an Anna ann an Anna Anna Anna	NR
	13. Bromopropionic Acid, Sat.	6	>480	7	E
	14. Butyl Acetate, 99+%	3	66	27	F
	15. Butyl Alcohol, 99%	6	>480	0	E
	16. Butyl Cellosolve, 99+%	6	>480	1	E
		0	>400	الم الملكة	A CONTRACTOR
	17. Butyrolactone, 99+%	Annoración contatora	Semantine man		NB
	18. Carbon Disulfide, 99.9%	1	14	24	F
	19. Carbon Tetrachloride, 99+%	6	>480	2	E
	20. Cellosolve Acetate, 99+%	3	100	17	G
	21. Chromic Acid, 50%	6	>480	10	E
	22. Citric Acid, 10%	6	>480	1	E
	23. Cyclohexanol, 98%	6	>480	1	E
	24. Diacetone Alcohol, 99%	5	273	8	E
Z	25. Dibutyl Phthalate, 99%	6	>480	1	E
	26. Diethylamine, 99+%	2	25	19	G
	27. Diisobutyl Ketone, 80%	6	>480	4	E
	28. Dimethyl Acetamide, 99+%		1	Learnin Charles and	NR
	29. N,N-Dimethylformamide, 99+%	•	-	2	NR
	30. Dimethyl Sulfoxide, 99+%	4	166	18	G
	31. Dioctyl Phthalate, 99%	6	>480	12	G
	32. 1, 4-Dioxane, 99.9%		(4)	-	NR
	33. Epichlorohydrin, 99+%	-	1.12	-	NR
	34. Ethyl Acetate, 99+%			-	NR
	35. Ethyl Alcohol, 90+%	5	293	1	E
	36. Ethyl Ether, 99+%	2	48	7	E
	37. Ethyl Glycol Ether, 99%	4	151	23	F
	38. Ethylene Glycol, 99+%	6	>480	0	E
	39. Formaldehyde, 99%	6	>480	0	E
	40. Formic Acid, 95+%	3	60	43	P
	41. Freon TF, 99+%	6	>480	2	P
	42. Furfural, 99%			Penetus anna a anna anna anna anna anna anna	NR
	43. Gasoline, White, 100%	6	>480	1	E
	44. Gluteraldehyde 5%	6	>480	3	Ē
	45. Hexamethyldisilazine, 97%	6	>480	1	E
	45. Hexane, 99+%	6	>480	4	Ē
	10	CARD IN CONTRACTOR OF CONTRACTOR	Bial and the second sec	() () () () () () () () () () () () () (
	47. Hydrazine, 65%	5	388	4	E
	48. Hydrochloric Acid, 10%	6	>480	8	E
	49. Hydrochloric Acid, 38%	6	>480	8	E
	50. Hydrofluoric Acid, 48%	6	>480	18	G
	51. Hydrogen Peroxide, 30%	6	>480	8	E





	BTT	-	Breakthrough time	
EN 374-3 —		-	European Union Chemical Permeation Test Standard	
	E		Excellent	
	G		Good	



Not Recommended

EN Class Index	Permeation Time (Minute)		
0	< 10 min.		
1	> 10 min.		
2	> 30 min.		
3	> 60 min.		
4	> 120 min.		
5	> 240 min.		
6	> 480 min		



Chemical Resistance Guide

	SUPER NITRILE				
CHEMICAL	EN 374-3 Closs	Avg. BTT (min)	% degradation	Performance Rating	
52. Hydroquinone, Sat.	6	>480	10	E	
53. Isobutyl Alcohol, 99+%	6	>480	6	E	
54. Iso-Octane, 99%	6	>480	1	E	
55. Isopropyl Alcohol, 99+%	6	>480	4	E	
56. Kerosene, 100%	6	>480	6	E	
57. Lactic Acid, 85%	6	>480	6	E	
58. Lauric Acid, 36%	5	>450	6	E	
59. Maleic Acid, Saturated	6	>480	2	E	
60. Methyl Alcohol, 99.9+%	2	59	11	G	
61. Methylamine, 40%	6	>480	6	E	
62. Methyl t-Butyl Ether, 99.8%	5	393	1	E	
63. Methyl Cellosolve, 99%	3	80	23	F	
64. Methyl Ethyl Ketone, 99+%				NR	
65. Mineral Spirits, Rule 66, 100%	6	>480	3	E	
66. Monoethanolamine, 99+%	6	>480	4	Ē	
67. Morpholine, 99%	-	and the state of t	-	NR	
68. Muriatic Acid, 100%	6	>480	8	E	
69. Naptha VM & P. 100%	6	>480	3	E	
70. N-Methyl-2-Pyrrolidone, 99+%		2 400	5	NR	
71. Nitric Acid, 10%	6	>480	4	E	
72. Nitric Acid, 70%	0	>400	4	NR	
73. Nitrobenzene, 99%		-		Contraction of the second	
74. Nitromethane, 95.5%	0	7	63	NR	
NORCOWARD PROFESSION OF A DESCRIPTION OF A	U		03	NR	
75. Nitropropane, 95.5%	6	> 400		NR	
76. Octyl Alcohol, 99+%	AT THE REAL PROPERTY OF	>480	7	E	
77. Oleic Acid, 99+%	6	>480	1	E	
78. Oxalic Acid, 12.5%	6	>480	7	E	
79. Palmitic Acid, Sat.	4	236	10	E	
80. Pentachlorophenol, 35%	4	160	10	E	
81. Pentane,98%	6	>480	2	E	
82. Percloric Acid, 60%	6	>480	9	E	
83. Phenol, 90%	terre the second			NR	
84. Phosphoric Acid, 85%	5	450	13	E	
85. Potassium Hydroxide, 50%	6	>480	10	E	
86. Propyl Acetate, 99%	atmospheric and an an	28	105	NR	
87. Propyl Alcohol, 96+%	6	>480	1 Marialization and a second	E	
88. Pyridine, 99%	and the second	in the second	Sauto a	NR	
89. Rubber Solvent, 100%	6	>480	7	E	
90. Sodium Hydroxide, 50%	6	>480	17	G	
91. Stoddard Solvent, 99%	6	>480	7	E	
92. Sulfuric Acid, 47%	6	>480	15	G	
93. Sulfuric Acid, 95%	-	-		NR	
94. Tannic Acid, 37.5%	5	>325	2	E	
95. 1,1,2,2-Tetrachloroethane, 99%	1	15	217	NR	
96. Tetrachloroethylene, 100%	5	350	247	NR	
97. Toluene, 99+%	1	19	16	NR	
98. 1,1,1-Trichloroethane, 99%	3	76	5	E	
99. Tricresyl Phosphate, 90%	5	330	17	G	
100. Triethanolamine, 85%	-	•	15	G	
101. Turpentine, 100%	6	>480	5	E	
102. Xylene, 99%	3	64	8	Ē	



Data shown from the following charts are the results of laboratory test as per ASTM/EN standard and are intended to serve as a guide only. The data is obtained from samples collected randomly.

The data is not an absolute basis for glove selection as testing was done in strict laboratory conditions. Actual working conditions may dictate the performance of the product. Factors such as glove reuse, thermal conditions, chemical mixtures, abrasion, cuts and punctures may also affect the performance of the glove.

It is also noted that permeation and degradation do not always correlate. A glove may have a good result in permeation breakthrough time but it may degrade (swell, gets weaker or softer) easily, thus rated P/NR. There are cases whereby the glove may be badly damaged by the chemical, in this case permeation breakthrough time is not applicable as the glove will not offer any protection to end use. End users are advised to do their evaluation when selecting a glove for a specific application in an actual working condition.

This chart does not serve as a warranty for the performance of the glove in any specific work application.

NOTE: DATA IN THIS GUIDE REFERS TO RUBBEREX SUPER NITRILE ONLY

© 2003 Rubberex (M) Sdn. Bhd. 2nd Edition. This guide replaces all previously published guides and is the exclusive property of Rubberex (M) Sdn. Bhd. It may not be copied, duplicated or produced by any means without our expressed, written permission.



ISO 14001 ISO 9001