Chemical Resistance of KEVLAR® Aramid Yarn

Chemical	Concentration (%)	Temperature °F	(°C)	Time (hr)	Effect on Breaking Strength*
ACIDS					
Acetic	99.7	70	(21)	24	None
Acetic	40	70	(21)	1000	Slight
Acetic	40	210	(99)	100	Appreciable
Benzoic	3	210	(99)	100	Appreciable
Chromic	10	70	(21)	1000	Appreciable
Formic	90	70	(21)	100	None
Formic	40	70	(21)	10000	Moderate
Formic	90	210	(99)	100	Degraded
Hydrobromic	10	70	(21)	1000	Appreciable
Hydrochloric	37	70	(21)	24	None
Hydrochloric	10	70	(21)	100	Appreciable
Hydrochloric	10	160	(71)	10	Degraded
Hydrofluoric	10	70	(21)	100	None
Nitric	1	70	(21)	100	Slight
Nitric	10	70	(21)	100	Appreciable
Nitric	70	70	(21)	24	Appreciable
Oxalic	10	210	(99)	100	Appreciable
Phosphoric	10	70	(21)	100	None
Phosphoric	10	70	(21)	1000	Slight
Phosphoric	10	210	(99)	100	Appreciable
Salicylic	3	210	(99)	1000	None
Sulfuric	10	70	(21)	1000	Moderate
Sulfuric	10	70	(21)	100	None
Sulfuric	10	212	(100)	10	Appreciable
Sulfuric	70	70	(21)	100	Moderate

Figura 4.1