

Hydrochloric acid 20%aq compatibility with AFLAS®



Test method Soaked into the fluid at 70°C for 168h.
Test fluid Hydrochloric acid 20%aq (20%aq HCl)
Test piece AFLAS® 100H (standard formulation)

Formulation	AFLAS® 100H	100
	MT-Carbon(N990)	30
	TAIC*	5
	Perkadox® 14**	1
	Sodium Stearate	1

(phr)

Cure Conditions Press molded at 170C for 20min
 Post cured at 200C for 4h

Properties (before test)	AFLAS® 100H	FKM (polyol cure)	FKM (peroxide cure)
Tensile strength [MPa]	21.4	14.0	19.1
Tensile Elongation [%]	259	173	290
Hardness [shore-A]	72	86	68

Hydrochloride 20%aq compatibility 70 °C for 168 hours	AFLAS® 100H	FKM (polyol cure)	FKM (peroxide cure)
Change of Tensile Strength [%]	-3	-3	7
Change of Tensile Elongation [%]	5	11	10
Change in Hardness [points]	0	1	0
Volume change [%]	0.6	1.7	-0.2

* Triallylisocyanurate

** 1,3-bis(t-butylperoxy)-diisopropylbenzene. Perkadox® is a registered trademark of Akzo Nobel Chemicals B.V.