

50%NaOH compatibility with AFLAS®



Test method Soaked into the fluid at 70°C for 168h & 720h.
Test fluid 50%NaOH
Test piece AFLAS® 100S (standard formulation)

Formulation	AFLAS® 100S	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® 100S	FKM (polyol cure)
Tensile strength [MPa]	22	14
Tensile Elongation [%]	222	173
Hardness [shore-A]	72	86

50%NaOH compatibility 70 °C for 168 hours	AFLAS® 100S	FKM (polyol cure)
Change of Tensile Strength [%]	2	-20
Change of Tensile Elongation [%]	8	-3
Change in Hardness [points]	1	-4
Volume change [%]	-0.5	-7.4

50%NaOH compatibility 70 °C for 720 hours	AFLAS® 100S	FKM (polyol cure)
Change of Tensile Strength [%]	0	-64
Change of Tensile Elongation [%]	0	-16
Change in Hardness [points]	0	-12
Volume change [%]	-1.1	-33.9

* Triallylisocyanurate

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