

NaOH 50%aq compatibility with AFLAS®



Test method Soaked into the fluid at 100°C for 70 hours.
Test fluid NaOH 50% diluted by water
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
Tensile strength [MPa]	20	14
Tensile Elongation [%]	230	212
Hardness [shore-A]	72	78

NaOH 50%aq compatibility 100 °C for 70 hours	AFLAS® 100S	FKM
Change of Tensile Strength [%]	-9	decomposition
Change of Tensile Elongation [%]	-11	decomposition
Change in Hardness [points]	-1	decomposition
Volume change [%]	0	decomposition

* Triallylisocyanurate

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