

# 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
	Parkadox® 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.