

# 50%NaOH compatibility with AFLAS®



**Test method** Soaked into the fluid at 70°C for 168h & 720h.  
**Test fluid** 50%NaOH  
**Test piece** AFLAS® 150P (standard formulation)

<b>Formulation</b>	AFLAS® 150P	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® 150P	FKM (polyol cure)
Tensile strength [MPa]	16.4	14.0
Tensile Elongation [%]	306	173
Hardness [shore-A]	72	86

50%NaOH compatibility 70 °C for 168 hours	AFLAS® 150P	FKM (polyol cure)
Change of Tensile Strength [%]	3	-20
Change of Tensile Elongation [%]	-10	-3
Change in Hardness [points]	0	-4
Volume change [%]	0.0	-7.4

50%NaOH compatibility 70 °C for 720 hours	AFLAS® 150P	FKM (polyol cure)
Change of Tensile Strength [%]	5	-64
Change of Tensile Elongation [%]	-16	-16
Change in Hardness [points]	0	-12
Volume change [%]	0.1	-33.9

\* Triallylisocyanurate

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