

## 50% NaOH compatibility with AFLAS®



**Test method** Soaked into the fluid at 70°C for 168h & 720h.  
**Test fluid** 50% NaOH  
**Test piece** AFLAS® 200P (standard formulation)

Formulation	AFLAS® 200P	100
	MT-Carbon(N990)	25
	TAIC*	5
	Perkadox® 14**	1
	MgO (highly active)	3
	Sodium Stearate	1
		(phr)

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

Properties (before test)	AFLAS® 200P	2-FKM
Tensile strength [MPa]	16.1	14.0
Tensile Elongation [%]	260	173
Hardness [shore-A]	66	86

50%NaOH compatibility 70 °C for 168 hours	AFLAS® 200P	2-FKM
Change of Tensile Strength [%]	6	-20
Change of Tensile Elongation [%]	2	-3
Change in Hardness [points]	0	-4
Volume change [%]	-0.2	-7.4

50%NaOH compatibility 70 °C for 720 hours	AFLAS® 200P	2-FKM
Change of Tensile Strength [%]	6	-64
Change of Tensile Elongation [%]	2	-16
Change in Hardness [points]	0	-12
Volume change [%]	-0.3	-33.9

\* Triallylisocyanurate

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