NaOH 50%aq compatibility with AFLAS®

Test method Soaked into the fluid at 100℃ for 70 hours.
Test fluid NaOH 50% diluted by water

Test piece AFLAS® 150P (standard formulation)

Formulation

AFLAS® 150P	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® 150P	FKM
Tensile strength [MPa]	**17**	14
Tensile Elongation [%]	**280**	212
Hardness [shore-A]	**70**	78

NaOH 50%aq compatibility 100 ℃ for 70 hours	AFLAS® 150P	FKM
Chang of Tensile Strength [%]	**-11**	decomposition
Change of Tensile Elongation [%]	**-8**	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.