

Nitric acid 20% aq compatibility with AFLAS[®]



Test method Soaked into the fluid at 70°C for 168h.
Test fluid Nitric acid 20% aq
Test piece AFLAS[®] 150E (standard formulation)

Formulation

AFLAS [®] 150E	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 [®] 150E	FKM (polyol cure)
Tensile strength [MPa]	14	14
Tensile Elongation [%]	297	173
Hardness [shore-A]	72	86

Nitric acid 20% aq compatibility 70 °C for 168 hours	AFLAS [®] 150E	FKM (polyol cure)
Change of Tensile Strength [%]	0	-14
Change of Tensile Elongation [%]	1	12
Change in Hardness [points]	-2	-7
Volume change [%]	4.1	23.4

* Triallylisocyanurate

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