

# Nitric acid 10% aq compatibility with AFLAS®



**Test method** Soaked into the fluid at 100°C for 70 hours  
**Test fluid** Nitric acid 10% aq  
**Test piece** AFLAS® 150P(standard formulation)

Formulation	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	2-FKM (polyol cure)
Tensile strength [MPa]	18	17
Tensile Elongation [%]	260	270
Hardness [shore-A]	70	73

Nitric acid 10% aq compatibility 100°C for 70 hours	AFLAS® 150P	2-FKM (polyol cure)
Change of Tensile Strength [%]	8	-10
Change of Tensile Elongation [%]	6	13
Change in Hardness [points]	-1	-19
Volume change [%]	5.2	43

\* Triallylisocyanurate

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