

# Nitric acid 65% aq compatibility with AFLAS®



**Test method** Soaked into the fluid at 100°C for 70 hours  
**Test fluid** Nitric acid 65% 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 65% aq compatibility 100°C for 70 hours	AFLAS® 150P	2-FKM (polyol cure)
Change of Tensile Strength [%]	-70	-76
Change of Tensile Elongation [%]	141	85
Change in Hardness [points]	-18	-42
Volume change [%]	40	64

\* Triallylisocyanurate

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