

# Nitric acid 10% aq compatibility with AFLAS<sup>®</sup>



**Test method** Soaked into the fluid at 100°C for 70 hours  
**Test fluid** Nitric acid 10% aq  
**Test piece** AFLAS<sup>®</sup> 100S

## Formulation

AFLAS <sup>®</sup> 100S	100
MT-Carbon(N990)	20
TAIC*	5
Perkadox <sup>®</sup> 14**	1
Sodium Stearate	1

(phr)

## Cure Conditions

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

Properties (before test)	AFLAS <sup>®</sup> 100S	2-FKM (polyol cure)
Tensile strength [MPa]	24	17
Tensile Elongation [%]	270	270
Hardness [shore-A]	65	73

Nitric acid 10% aq compatibility 100°C for 70 hours	AFLAS <sup>®</sup> 100S	2-FKM (polyol cure)
Change of Tensile Strength [%]	2	-10
Change of Tensile Elongation [%]	-0.3	13
Change in Hardness [points]	1	-19
Volume change [%]	4.8	43

\* Triallylisocyanurate

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