

# Steam 250°C compatibility with AFLAS®



**Test method** Soaked into the fluid at 250°C for 168 hours.  
**Test fluid** Steam  
**Test piece** AFLAS® 100H (standard formulation)

<b>Formulation</b>	AFLAS® 100H	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® 100H	Ethylene / Tetrafluoroethylene / PMVE
Tensile strength [MPa]	20.0	15.4
Tensile Elongation [%]	255	343
Hardness [shore-A]	71	68

Steam compatibility 250 °C for 168 hours	AFLAS® 100H	Ethylene / Tetrafluoroethylene / PMVE
Change of Tensile Strength [%]	-29	-22
Change of Tensile Elongation [%]	46	9
Change in Hardness [points]	-4	-11
Volume change [%]	5.7	61.1

\* Triallylisocyanurate

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