

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)

Formulation	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	FKM (peroxide cure)	FKM (polyol cure)
Tensile strength [MPa]	21.9	21.9	16.0
Tensile Elongation [%]	314	319	213
Hardness [shore-A]	68	64	68

Steam compatibility 250 °C for 168 hours	AFLAS® 100H	FKM (peroxide cure)	FKM (polyol cure)
Change of Tensile Strength [%]	-40	decomposition	decomposition
Change of Tensile Elongation [%]	16	decomposition	decomposition
Change in Hardness [points]	-10	decomposition	decomposition

* Triallylisocyanurate

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