

Methanol compatibility with AFLAS®



Test method Soaked into the fluid at 40°C for 70 hours & 168 hours.
Test fluid Methanol
Test piece AFLAS® 100S (standard formulation)

Formulation	AFLAS® 100S	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® 100S	ref. 2-FKM(polyol)
Tensile strength [MPa]	20	14
Tensile Elongation [%]	230	212
Hardness [shore-A]	72	78

Methanol compatibility 40 °C for 70 hours	AFLAS® 100S	ref. 2-FKM(polyol)
Change of Tensile Strength [%]	-13	-62
Change of Tensile Elongation [%]	-1	-51
Change in Hardness [points]	-4	
Volume change [%]	1	48

Methanol compatibility 40 °C for 168 hours	AFLAS® 100S	ref. 2-FKM(polyol)
Change of Tensile Strength [%]	-16	-50
Change of Tensile Elongation [%]	-15	-44
Change in Hardness [points]	-5	-24
Volume change [%]	2	69

* Triallylisocyanurate

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