

Dimethyl Sulfoxide compatibility with AFLAS[®]



Test method Soaked into the fluid at 40°C for 168 hours.
Test fluid Dimethyl Sulfoxide (DMSO)
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 [%]	239	212
Hardness [shore-A]	69	78

Dimethyl Sulfoxide compatibility 40 °C for 168 hours	AFLAS [®] 100S	ref. 2-FKM(polyol)
Change of Tensile Strength [%]	+7	-49
Change of Tensile Elongation [%]	-8	-47
Change in Hardness [points]	8	-35
Volume change [%]	0	112

* Triallylisocyanurate

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