

IRM 903 Oil compatibility with AFLAS[®]



Test method Soaked into the fluid at 150°C for 168h, 500h & 1000h.
Test fluid IRM 903 Oil
Test piece AFLAS[®] 100H (standard formulation)

Formulation	AFLAS [®] 100H	
	Component	Parts per hundred (phr)
AFLAS [®] 100H		100
MT-Carbon(N990)		30
TAIC*		5
Perkadox [®] 14**		1
Sodium Stearate		1

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

Properties (before test)	AFLAS [®] 100H
Tensile strength [MPa]	21
Tensile Elongation [%]	300
Hardness [shore-A]	72

IRM 903 Oil compatibility 150 °C for 168 hours	AFLAS [®] 100H
Change of Tensile Strength [%]	-10
Change of Tensile Elongation [%]	+8
Change in Hardness [points]	-10
Volume change [%]	+12.7

IRM 903 Oil compatibility 150 °C for 500 hours	AFLAS [®] 100H
Change of Tensile Strength [%]	-11
Change of Tensile Elongation [%]	+17
Change in Hardness [points]	-10
Volume change [%]	+13.5

IRM 903 Oil compatibility 150 °C for 1000 hours	AFLAS [®] 100H
Change of Tensile Strength [%]	-15
Change of Tensile Elongation [%]	+9
Change in Hardness [points]	-11
Volume change [%]	+13.4

* Triallylisocyanurate

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