

# M85 compatibility with AFLAS®



**Test method** Soaked into the fluid at 70°C for 168h, 720h & 1000h.  
**Test fluid** M85 (Fule C / Methanol = 15 / 85 vol%)  
**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]	21.5	16
Tensile Elongation [%]	237	218
Hardness [shore-A]	67	67

M85 compatibility 70°C for 168 hours	AFLAS® 100S	ref. 2-FKM(polyol)
Change of Tensile Strength [%]	-37	-61
Change of Tensile Elongation [%]	-10	-41
Change in Hardness [points]	-15	-14
Volume change [%]	14	14

M85 compatibility 70°C for 720 hours	AFLAS® 100S	ref. 2-FKM(polyol)
Change of Tensile Strength [%]	-37	-60
Change of Tensile Elongation [%]	-5	-25
Change in Hardness [points]	-15	-14
Volume change [%]	14	13

M85 compatibility 70°C for 1000 hours	AFLAS® 100S	ref. 2-FKM(polyol)
Change of Tensile Strength [%]	-38	-67
Change of Tensile Elongation [%]	-3	-41
Change in Hardness [points]	-15	-17
Volume change [%]	14	13

\* Triallylisocyanurate

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