

BDF compatibility with AFLAS®



Test method Soaked into the fluid at 40°C for 168h & 720h.
Test fluid BDF (Bio Diesel Fuel)
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	FKM (polyol cure)	FKM (peroxide cure)
Tensile strength [MPa]	22	14	19
Tensile Elongation [%]	222	173	290
Hardness [shore-A]	72	86	68

BDF compatibility 40 °C for 168 hours	AFLAS® 100S	FKM (polyol cure)	FKM (peroxide cure)
Change of Tensile Strength [%]	-12	-6	4
Change of Tensile Elongation [%]	-2	8	14
Change in Hardness [points]	-5	1	-2
Volume change [%]	3.4	0.3	-0.6

BDF compatibility 40 °C for 720 hours	AFLAS® 100S	FKM (polyol cure)	FKM (peroxide cure)
Change of Tensile Strength [%]	-13	-4	14
Change of Tensile Elongation [%]	-2	13	16
Change in Hardness [points]	-9	-1	-4
Volume change [%]	2.7	-0.8	-0.7

* Triallylisocyanurate

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