BDF compatibility with AFLAS®

Test method Soaked into the fluid at 40℃ for 168h & 720h.
Test fluid BDF (Bio Diesel Fuel)
Test piece AFLAS® 100H (standard formulation)

Formulation

AFLAS® 100H	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® 100H	FKM (polyol cure)	FKM (peroxide cure)
Tensile strength [MPa]	21	14	19
Tensile Elongation [%]	259	173	290
Hardness [shore-A]	72	86	68

BDF compatibility 40 ℃ for 168 hours	AFLAS® 100H	FKM (polyol cure)	FKM (peroxide cure)
Chang of Tensile Strength [%]	**-11**	-6	4
Change of Tensile Elongation [%]	**12**	8	14
Change in Hardness [points]	**-5**	1	-2
Volume change [%]	**3.9**	0.3	-0.6

BDF compatibility 40 ℃ for 720 hours	AFLAS® 100H	FKM (polyol cure)	FKM (peroxide cure)
Chang of Tensile Strength [%]	**-17**	-4	14
Change of Tensile Elongation [%]	**7**	13	16
Change in Hardness [points]	**-9**	-1	-4
Volume change [%]	**3.0**	-0.8	-0.7

* Triallylisocyanurate

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