

Oil-Water mixture compatibility with AFLAS®



Test method Soaked into the fluid at 125°C for 168 hours.
Test fluid Oil-Water mixture for automotive requirement
 Diesel fuel 45 vol%
 Reference oil C20 (BP) 45 vol%
 Distilled water 10 vol%

Test piece AFLAS® 150P (standard formulation)

Formulation		
		(phr)
AFLAS® 150P		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® 150P	FKM (polyol cure)
Tensile strength [MPa]	17.9	16.9
Tensile Elongation [%]	292	267
Hardness [shore-A]	71	73

Oil-Water mixture compatibility 125 °C for 168 hours	AFLAS® 150P	FKM (polyol cure)
Change of Tensile Strength [%]	8	-34.2
Change of Tensile Elongation [%]	-5.5	-67
Change in Hardness [points]	3	6

* Triallylisocyanurate

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