

Gear Oil (Shell SPIRAX EP80) compatibility with AFLAS®



Test method Soaked into the fluid at 175°C for 168h & 1000h.
Test fluid Shell SPIRAX EP80
Test piece AFLAS® 150P (standard formulation)

Formulation	AFLAS® 150P	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® 150P	FKM
Tensile strength [MPa]	20.9	13.7
Tensile Elongation [%]	260	200
Hardness [shore-A]	70	79

Shell SPIRAX EP80 compatibility 175 °C for 168 hours	AFLAS® 150P	FKM
Change of Tensile Strength [%]	-33	-59
Change of Tensile Elongation [%]	-7	-67
Change in Hardness [points]	-11	-1
Volume change [%]	8	NA

Shell SPIRAX EP80 compatibility 175 °C for 1000 hours	AFLAS® 150P	FKM
Change of Tensile Strength [%]	-22	NA
Change of Tensile Elongation [%]	+1	NA
Change in Hardness [points]	-6	NA
Volume change [%]	5	NA

* Triallylisocyanurate

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