

# Gear Oil (Stauffer Blend 7700) compatibility with AFLAS®



**Test method** Soaked into the fluid at 175°C for 200h, 500h & 1000h  
**Test fluid** Gear Oil (Stauffer Blend 7700)  
**Test piece** AFLAS® 150P (standard formulation)

<b>Formulation</b>	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

Stauffer Blend 7700 compatibility 175 °C for 200 hours	AFLAS® 150P	FKM
Change of Tensile Strength [%]	-35	-27
Change of Tensile Elongation [%]	-15	-14
Change in Hardness [points]	-14	-11
Volume change [%]	21	15

Stauffer Blend 7700 compatibility 175 °C for 500 hours	AFLAS® 150P	FKM
Change of Tensile Strength [%]	-34	-26
Change of Tensile Elongation [%]	-12	-15
Change in Hardness [points]	-15	-11
Volume change [%]	22	17

Stauffer Blend 7700 compatibility 175 °C for 1000 hours	AFLAS® 150P	FKM
Change of Tensile Strength [%]	-36	-36
Change of Tensile Elongation [%]	+2	-11
Change in Hardness [points]	-23	-19
Volume change [%]	21	24

\* Triallylisocyanurate

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