

Turbine Oil (Aeroshell 500) compatibility with AFLAS®



Test method Soaked into the fluid at 175°C for 100 hours
Test fluid Turbine Oil (Aeroshell 500)
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
Tensile strength [MPa]	18.1
Tensile Elongation [%]	274
Hardness [shore-A]	73

Turbine Oil 500 compatibility 175 °C for 100 hours	AFLAS® 100S
Change of Tensile Strength [%]	10
Change of Tensile Elongation [%]	-7
Change in Hardness [points]	0
Volume change [%]	8

* Triallylisocyanurate

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