

30% Urea compatibility with AFLAS®



Test method Soaked into the fluid at 100°C for 168 hours
Test fluid 30% Urea aq solution
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 (polyol cure)	3-FKM (peroxide cure)
Tensile strength [MPa]	18	17	24
Tensile Elongation [%]	260	270	370
Hardness [shore-A]	70	73	67

30% urea compatibility 100°C for 168 hours	AFLAS® 150P	FKM (polyol cure)	3-FKM (peroxide cure)
Change of Tensile Strength [%]	1	-78	-76
Change of Tensile Elongation [%]	-7	-70	-44
Change in Hardness [points]	-3	-38	-25
Volume change [%]	5.1	179	134

* Triallylisocyanurate

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