

## 28% Aquaous ammonium compatibility with AFLAS®



**Test method** Soaked into the fluid at 70°C for 168h & 720h.  
**Test fluid** 28% Aquaous ammonium  
**Test piece** AFLAS® 200P (standard formulation)

<b>Formulation</b>	AFLAS® 200P	100
	MT-Carbon(N990)	25
	TAIC*	5
	Perkadox® 14**	1
	MgO (highly active)	3
	Sodium Stearate	1

(phr)

**Cure Conditions** Press molded at 170C for 20min  
 Post cured at 200C for 4h

Properties (before test)	AFLAS® 200P	FKM (polyol cure)	FKM (peroxide cure)
Tensile strength [MPa]	16	14	19
Tensile Elongation [%]	260	173	290
Hardness [shore-A]	66	86	68

28% Aquaous ammonium compatibility 70 °C for 168 hours	AFLAS® 200P	FKM (polyol cure)	FKM (peroxide cure)
Chang of Tensile Strength [%]	-38	decomposition	decomposition
Change of Tensile Elongation [%]	-49	decomposition	decomposition
Change in Hardness [points]	-3	decomposition	decomposition
Volume change [%]	62.8	decomposition	decomposition

28% Aquaous ammonium compatibility 70 °C for 720 hours	AFLAS® 200P	FKM (polyol cure)	FKM (peroxide cure)
Chang of Tensile Strength [%]	-39	decomposition	decomposition
Change of Tensile Elongation [%]	-59	decomposition	decomposition
Change in Hardness [points]	-5	decomposition	decomposition
Volume change [%]	144.5	decomposition	decomposition

\* Triallylisocyanurate

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