28% Aquaous ammonium compatibility with AFLAS®

Test method Soaked into the fluid at 70℃ for 168h & 720h.

Test fluid 28% Aquaous ammonium

Test piece AFLAS® 200P (standard formulation)

Formulation

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 ℃ 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 ℃ 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.