

# Acetic Hydroperoxide compatibility with AFLAS®



**Test method** Soaked into the fluid at 25°C for 72h, 168h and 504h.  
**Test fluid** Acetic Hydroperoxide  
**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	ref. 2-FKM(polyol)
Tensile strength [MPa]	17	14
Tensile Elongation [%]	263	212
Hardness [shore-A]	67	78

Acetic Hydroperoxide compatibility 25 °C for 72 hours	AFLAS® 150P	ref. 2-FKM(polyol)
Change of Tensile strength [%]	-6	-40
Change of Tensile Elongation [%]	14	5
Change in Hardness [points]	0	-11
Volume change [%]	0	16

Acetic Hydroperoxide compatibility 25 °C for 168 hours	AFLAS® 150P	ref. 2-FKM(polyol)
Change of Tensile strength [%]	-4	-56
Change of Tensile Elongation [%]	20	8
Change in Hardness [points]	-2	-25
Volume change [%]	1	38

Acetic Hydroperoxide compatibility 25 °C for 504 hours	AFLAS® 150P	ref. 2-FKM(polyol)
Change of Tensile strength [%]	-17	deterioration
Change of Tensile Elongation [%]	25	deterioration
Change in Hardness [points]	-4	deterioration
Volume change [%]	3	deterioration

\* Triallylisocyanurate

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

Acetic Hydroperoxide : CH<sub>3</sub>COOOH