

# 50% Sodium hydroxide solution compatibility with AFLAS®



**Test method** Soaked into the fluid at 100°C for 70 hours  
**Test fluid** 50% sodium hydroxide solution (50% NaOH)  
**Test piece** AFLAS® 150P(standard formulation)

<b>Formulation</b>	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

<b>Properties (before test)</b>	<b>AFLAS® 150P</b>	<b>2-FKM</b>
Tensile strength [MPa]	18	17
Tensile Elongation [%]	260	270
Hardness [shore-A]	70	73

<b>50% Sodium hydroxide solution compatibility 100°C for 70 hours</b>	<b>AFLAS® 150P</b>	<b>2-FKM</b>
<b>Change of Tensile Strength [%]</b>	-11	decomposition
<b>Change of Tensile Elongation [%]</b>	-8	decomposition
<b>Change in Hardness [points]</b>	1	decomposition
<b>Volume change [%]</b>	0.1	decomposition

\* Triallylisocyanurate

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