

## Brake Fluid compatibility with AFLAS<sup>®</sup>



**Test method** Soaked into automotive brake fluid at 150C for 200h.  
**Test fluid** Toyota brake fluid  
**Test piece** AFLAS<sup>®</sup> 100S (standard formulation)

**Formulation**

AFLAS <sup>®</sup> 100S	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 <sup>®</sup> 100S	ref. 2-FKM(polyol)	ref. 3-FKM(peroxide)
Tensile strength [MPa]	23.2	13.4	23.7
100% Modulus [MPa]	7.1	7.5	2.9
Tensile Elongation [%]	236	197	354
Hardness [shore-A]	72	79	67
Specific gravity	1.58	1.83	1.86

Brake Fluid compatibility 150 °C for 200 hours	AFLAS <sup>®</sup> 100S	ref. 2-FKM(polyol)	ref. 3-FKM(peroxide)
Tensile strength [MPa]	19.2	3.1	12.9
100% Modulus [MPa]	6.0	NA	2.2
Tensile Elongation [%]	208	70	298
Hardness [shore-A]	65	47	62
<b>Change of Tensile strength [%]</b>	<b>-17</b>	<b>-77</b>	<b>-46</b>
<b>Change of 100% Modulus [%]</b>	<b>-16</b>	<b>NA</b>	<b>-27</b>
<b>Change of Tensile Elongation [%]</b>	<b>-12</b>	<b>-64</b>	<b>-16</b>
<b>Change in Hardness [points]</b>	<b>-7</b>	<b>-32</b>	<b>-5</b>
<b>Volume change [%]</b>	<b>7</b>	<b>42</b>	<b>4</b>

\* Triallylisocyanurate

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