

# Hydrochloric acid 20%aq compatibility with AFLAS®



**Test method** Soaked into the fluid at 70°C for 168h.  
**Test fluid** Hydrochloric acid 20%aq (20%aq HCl)  
**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 230C for 24h

Properties (before test)	AFLAS® 200P	FKM (polyol cure)	FKM (peroxide cure)
Tensile strength [MPa]	16.1	14.0	19.1
Tensile Elongation [%]	260	173	290
Hardness [shore-A]	66	86	68

Hydrochloride 20%aq compatibility 70 °C for 168 hours	AFLAS® 200P	FKM (polyol cure)	FKM (peroxide cure)
Change of Tensile Strength [%]	7	-3	7
Change of Tensile Elongation [%]	9	11	10
Change in Hardness [points]	-1	1	0
Volume change [%]	0.6	1.7	-0.2

\* Triallylsocyanurate

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