

AL01 ALUMINOSILICATE

This material (Alkali-free Aluminosilicate) has been specially selected for the manufacture of flat gauge glasses intended for high temperature applications

TYPICAL PROPERTIES

Thermal expansion (20-300° C) α	= 4.7×10^{-6} K
Transformation Temperature Tg	= 715° C
Strain Point Tc	= 688° C
Softening Temperature Mg	> 910° C
Thermal Shock Δ	= 300° C
Bending Strength Mpa	> 200
Composition (wt %)	
	SiO ₂ ~60.0
	Al ₂ O ₃ ~15.0
	B ₂ O ₃ ~ 7.0
	ZrO ₂ ~ Trace
	RO ~ 18.0 (R ²⁺ =Mg ²⁺ .Ba ²⁺ .Ca ²⁺)
Hydrolytic Resistance (DIN ISO 719)	Class 1
Acid Resistance (DIN 12116)	Class 3
Alkali Resistance (DIN ISO 695)	Class 3