

DATASHEET: P005 PAGE 1 OF 1 ISSUE NO. 01

BOROSILICATE GAUGE GLASS SUPRAX

This material has been specially selected for the manufacture of flat gauge glasses for steam and hydrostatic applications

Glasses are available in Reflex (Prism), Transparent (Plain), and High pressure types, and imperial or metric dimensions to the following standards:

- BS 3463
- DIN 7081
- JIS B 8211
- MIL-G-16356 D

Custom made glasses to complement the standard sizes are also available

Contact us for availability and pressure / temperature ratings

TYPICAL PROPERTIES

Thermal expansion (20-300° C) α	$=4.3x10^{-6}$ K
Transformation Temperature Tg	= 540° C
Annealing Temperature Tu	= 560° C
Softening Temperature Mg	= 800° C
Composition (wt %)	
SiO ₂	~ 78.0
Al_2O_3	~ 3.0
B_2O_3	~ 10.0
Na2O	~ 7.0
ZrO ₂	~ 2.0
Hydrolytic Resistance (DIN ISO 719)	Class 1
Acid Resistance(DIN 12116)	Class 1
Alkali Resistance (DIN ISO 695)	Class 2
Application Data (Standard 34x17.5mm section)	
Saturated steam and alkaline solutions with significant glass attack	
In direct contact with glass@ 243° C	34bar 500psi
With mica protection@ 285° C	68bar 1000psi
With mica protection HP type@ 315° C	103bar 1500psi
Applications with no significant glass attack i.e. non-steam, non-corrosive	
Reflex Type @ 38° C	280bar 4000psi
Transparent Type @ 38° C	345bar 5000psi
High Pressure Type* @ 38° C	414bar 6000psi
*Mounted in suitable gauges	
Thermal Shock Δ	= 265° C
Bending Strength	= 170 N/mm2
Maximum temperature	= 300° C

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