

# Material Specification



Aluminosilicate glass, tempered

No.:

**Aluminosilicate  
Glass\_02.doc**

For safety sight and level gauge applications

Date:

**20, September 2016**

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## 1 Scope

Tempered Aluminosilicate Glasses are used in safety sight glass and level gauge glass applications at high temperature and pressure.

## 2 Pressure and thermal load

Max. Pressure: 225 bar / 3'263 psi

Max. Temperature: 375° C / 707° F

Thermal shock resistance

acc. to ISO 718:  $\Delta T$  265 K

## 3 Surface Compressive Stress:

$\sigma = 100 - 140 \text{ MPa (N/mm}^2\text{)}$

## 4 Coefficient of Expansion:

$\alpha_{20 / 300} = 4.8 \times 10^{-6} \text{ K}^{-1}$

## 5 Chemical Characteristics

Hydrolytic Resistance acc. to ISO 719 Class 1

Acid Resistance acc. to DIN 12116 Class 3

Alkali Resistance acc. to ISO 695 Class 3

## 6 Remarks

We recommend protecting the inner side of the glass (i.e. side facing steam or liquid) with a mica shield to avoid fast chemical attack.