### Material Specification

Aluminosilicate glass, tempered  
For safety sight and level gauge applications

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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:** Δ 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.