INDUSTRIEARMATUREN

Quartz glass sight glasses

for sight glass fittings, round/longitudinal/square/

Quartz glass

Use our transmission calculator for quartz glass!

USAGE

Quartz glass sight glasses are ideal for visual process control under high thermal and chemical stress. Made of high-purity, natural quartz glass (99.98% SiO_2), they offer excellent UV transmission as well as exceptionally high chemical resistance. Thanks to their temperature resistance, they are particularly suitable for high-temperature applications – such as in process engineering, analytics, or laboratory environments.

Operating Conditions	
Temperature:	1000 °C duration
Pressure:	on request

APPLICATION PROPERTIES

Through production and quality checks in the process flow, the property values of the glasses and the tight dimensional tolerances are guaranteed. With these excellent properties, these sight glasses are suitable for extreme conditions.

Optical Properties

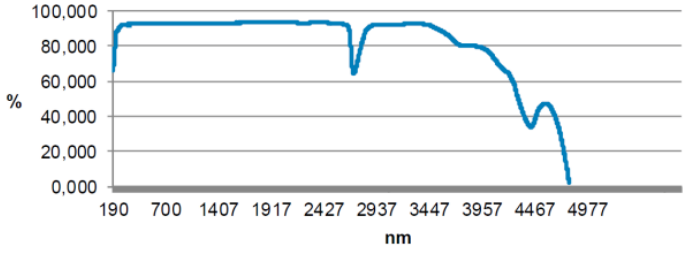
The graph next to it shows the spectral transmission from 190 - 4977 nm at a thickness of 1 mm.

DELIVERY FORMS AND DIMENSIONS

We supply high-quality sight glasses made from natural or synthetic quartz glass in various designs: round, elongated, square, as a tube or in custom-made designs – just according to your requirements or according to drawing.

CHEMICAL RESISTANCE

Chemical Resistance:	
Water resistance according to DIN ISO 719/720	Hydrolysis class 1 - highest class for very low ion release under neutral conditions
Acid resistance according to DIN 12116	Acid class 1 - almost completely resistant to acid attack
Alkali resistance according to DIN 52332	Alkali class 1 - Alkali class 1 (in some areas A2) – excellent resistance against alkalis



TECHNICAL INFORMATION

Technical Information	
Coefficient of expansion at 25 °C/300 °C	5.5×10^{-7} cm/(cm·°C) (= 5.5×10^{-7} K^{-1})
Elasticity modulus	7.2×10^{10} Pa
Thermal conductivity at 20 °C	1.4 W/(m·°C)
Temperature change resistance	up to approx. 1000 °C temperature difference (ΔT)

QUICK OVERVIEW

heat resistant up to 1000 °C

for liquid media

for gaseous media

custom designs possible

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