

Douglass

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FLAT QUARTZ SIGHT GLASS

Quartz (fused silica) circular sight glasses excel in high-temperature environments due to their superior clarity and resilience to thermal shock. Their low thermal expansion makes them perfect for use in furnaces, boilers, and reactors, where maintaining visibility is critical.

These glasses withstand rapid temperature changes, making them reliable for monitoring processes in demanding industrial settings. The circular design ensures easy installation and clear, unobstructed viewing, enhancing safety and operational efficiency.



TECHNICAL INFORMATION

Physical properties	Testing method	Obtained value
Thermic dilatation coefficient	ISO 7991	6,2 X 10 ⁻⁷ °K
Density at 25°C	SN 7005 13	2.20 g/cm ³
Refractive index (λ = 587.6 nm) nd		1.425
Maximum annealing temperature	ISO 7884-8	1500°C
Short-term maximum temperature	ISO 7884-7	1450°C
Thermal shock resistance	ISO 7884	500K
Young's modulus		68,0 MPa
Poisson constant		0,17
Thermal conductivity	20°C - 100°C λ	0.003CAL
Photoelastic constant	DIN 52314	(4,00 x 10 ⁻⁶)(mm ² /N)
Specific electrical resistance 108 Ωcm	DIN 52326	250°C
Dimensional tolerance diameter	DIN 7080	PASS
Optical properties	Testing method	Obtained value
Bubbles in glass	DIN 7080	PASS
Marks on glass	DIN 7080	PASS
Chamfer tolerance	DIN 7080	PASS
Viscous knots	DIN 7080	No visible
Glass inclusions	DIN 7080	Less than 0.2mm

OUR WARRANTY

100% Satisfaction Guarantee

Warranty period

Douglass warrants merchandise against defective workmanship and materials that become apparent within a period of 12 months from the date of receipt of invoice by the purchaser (hereinafter referred to as the warranty period). All liabilities under the warranty provisions shall expire when the warranty period has expired.

Please feel free to contact us if you have any questions or comments.

We would love to hear from you!