

Douglass

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TEMPERED BOROSILICATE FLOW SIGHT GLASSES

Tempered borosilicate cylinders, utilized in 360° view sight flow indicators, combine high chemical and thermal resistance with the strength needed for demanding industrial applications.

Borosilicate glass, known for its low coefficient of thermal expansion, allows these cylinders to withstand temperature variations and aggressive chemicals without compromising integrity. The tempering process further enhances their durability, making them ideal for observing fluid dynamics in real-time from any angle, a crucial feature for processes involving hazardous or high-temperature fluids.

These indicators are indispensable in chemical processing, pharmaceuticals, and petrochemical industries, where continuous monitoring of fluid flow, color, and clarity is essential.

The 360° visibility offered by these cylinders ensures comprehensive monitoring, facilitating improved process control and safety.



TECHNICAL INFORMATION		
Physical properties	Testing method	Obtained value
Thermic dilatation coefficient	ISO 7991	3.3 X 10 ⁻⁶
Density at 25°C	SN 7005 13	2.23 g/cm ³
Refractive index (λ = 587.6 nm) nd		1.472
Maximum annealing temperature	ISO 7884-8	1040°F
Short-term maximum temperature	ISO 7884-7	932°F
Thermal shock resistance	ISO 7884	-45.67°F
Young's modulus		63.150 MPa
Poisson constant		0.2
Thermal conductivity	20°C - 100°C λ	(1.2)(w ³ m ⁻¹)(K-1)
Photoelastic constant	DIN 52314	(4.00 x 10 ⁻⁶)(mm ² /N)
Specific electrical resistance 108 Ωcm	DIN 52326	482°F
Dimensional tolerance diameter	DIN 7080	PASS
Chemical properties	Testing method	Obtained value
Hydrolytic resistance	ISO 719	HGB 1
Acid resistance	ISO 1776	CLASS S1
Alkaline resistance	ISO 695	CLASE S2
Chemical composition	SiO ₂	Minimum content 80%
Chemical composition	B ₂ O ₃	Minimum content 13%
Chemical composition	NaO ₂ + K ₂ O	Minimum content 4.5%

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!