



PRODUCT CATALOGUE



HENGSHUI AOHONG TECHNOLOGY CO., LTD.

AOHONG GLASS



Relex gauge glass



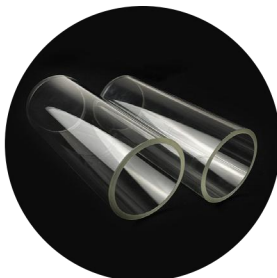
Transparent gauge glass

Our main products include: High borosilicate Reflex gauge glass, High borosilicate Transparent gauge glass, Rectangular glass, Circular glass, Glass tubes and rods, Lab glassware, Glass road stud, and Bubble level, etc. All products are manufactured to exacting international standards to meet safety regulations.

Our products have been sold all over the world, including German, USA, Italy, England, Japan, Russia, Korea, etc., they are very popular among users with excellent cost performance.



Circular glass



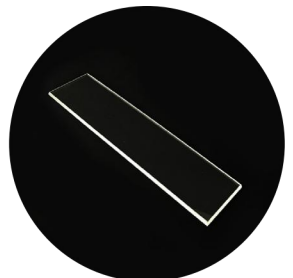
Glass tube



Irregular glass



Aluminosilicate glass

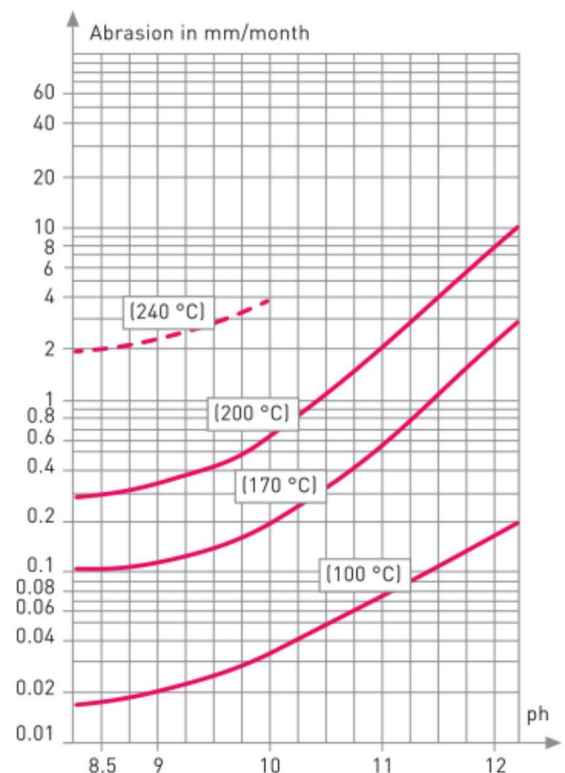


Rectangular glass

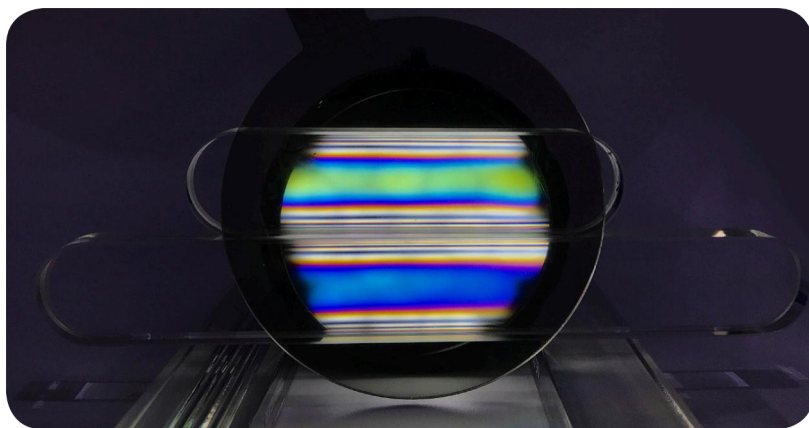
AOHONG HIGH BOROSILICATE GLASS PERFORMANCE DATA SHEET

Coefficient of expansion α 20 °C/300 °C	$3.3 \times 10^{-6} \text{ K}^{-1}$
Transformation temperature	540 °C
Glass temperature for the viscosities η pas (Poise)	$10^{13.0}$ 560 °C
	$10^{7.6}$ 800 °C
	$10^{4.0}$ 1200 °C
Density at 25 °C	2.3 g/cm ³
Modulus of elasticity	$67 \times 10^3 \text{ N/mm}^2$
Modulus of elasticity Poisson's ratio μ	0.20
Thermal conductivity λ at 90 °C	1.2 W /m·K
Refractive index n_d ($\lambda = 587.6 \text{ nm}$)	1.484
Max Working Pressure	40 KG/SQ CM
Max Temperature	350°C

Chemical characteristics	Hydrolytic resistance	Acidic Resistance	Alkaline Resistance
Test acc.to	DIN ISO 719	DIN ISO1776	DIN ISO 695
max. Abrasion acc. to DIN ISO	0.1	<100 $\mu\text{g Na}_2\text{O}$ each 100 cm ²	>75–175 mg each 100 cm ²
max. Abrasion	0.050	<60 $\mu\text{g Na}_2\text{O}$ each 100 cm ²	<100 mg each 100 cm ²
Aohong	HGB 1	—	class A2



The abrasion of Aohong glass in watery phase for several temperatures as a function of the ph-value



Super Toughened

Sight glass viewed in polarised light: the sequence of colors in the visual inspection shows that the desired compressive prestress has been reached.

Bending strength (typical values):

Relax glass	$\geq 150 \text{ n/mm}^2$	21,000 psi	(Average: 170 n/mm^2 25,000 psi)
Transparent glass	$\geq 180 \text{ n/mm}^2$	26,000 psi	(Average: 200 n/mm^2 29,000 psi)

Surface compressive stress:

Relax glass	$\geq 150 \text{ n/mm}^2$	21,000 psi	(Average: 170 n/mm^2 25,000 psi)
Transparent glass	$\geq 180 \text{ n/mm}^2$	26,000 psi	(Average: 200 n/mm^2 29,000 psi)

SAFETY SIGHT AND LEVEL GAUGE GLASS SPECIAL-TEMPERED



In order to achieve the high final quality we demand, high parallelism and flatness with minimum surface roughness are an absolute "must".

The blanks are ground twice between the diamond pellets of our automatic grinding and lapping machines before they are polished.

Products Range:

(Production standard depend on DIN7081)

Relax (with grooves)		Size Code	Transparent (without grooves)	
Type	A		Type	B
-----	95 x 34 x 17	0	-----	95 x 34 x 17
115 x 30 x 17	115 x 34 x 17	1 - I	115 x 30 x 17	115 x 34 x 17
140 x 30 x 17	140 x 34 x 17	2 - II	140 x 30 x 17	140 x 34 x 17
165 x 30 x 17	165 x 34 x 17	3 - III	165 x 30 x 17	165 x 34 x 17
190 x 30 x 17	190 x 34 x 17	4 - IV	190 x 30 x 17	190 x 34 x 17
220 x 30 x 17	220 x 34 x 17	5 - V	220 x 30 x 17	220 x 34 x 17
250 x 30 x 17	250 x 34 x 17	6 - VI	250 x 30 x 17	250 x 34 x 17
280 x 30 x 17	280 x 34 x 17	7 - VII	280 x 30 x 17	280 x 34 x 17
320 x 30 x 17	320 x 34 x 17	8 - VIII	320 x 30 x 17	320 x 34 x 17
340 x 30 x 17	340 x 34 x 17	9 - IX	340 x 30 x 17	340 x 34 x 17
-----	370 x 34 x 17	10 - X	-----	370 x 34 x 17
-----	400 x 34 x 17	11 - XI	-----	400 x 34 x 17
-----	420 x 34 x 17	12 - XII	-----	420 x 34 x 17

Dimensional and shape tolerances

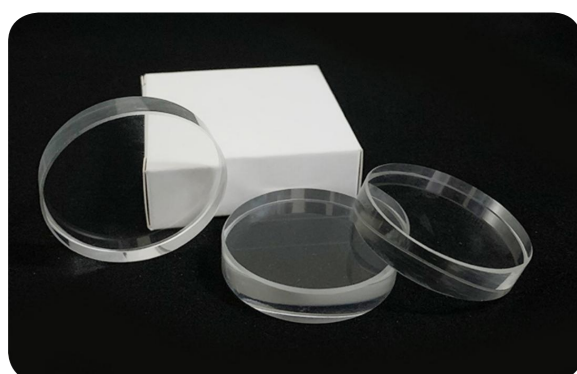
Level gauge glass width 34 mm

Length (L)	+ 0/-1.5
Width (W)	+ 0.2/-0.8
Thickness (T)	+ 0.5/-0.5
Flatness (E)	
95 < L ≤ 220	≤0.05
L > 220	≤0.08
Parallelism	≤0.08

Level gauge glass width 30 mm

Length (L) ≤ 220	± 0.8
≥ 250	± 1.0
Width (W)	± 0.8
Thickness (T)	± 0.5
Flatness (E)	
95 < L ≤ 220	≤0.05
L > 220	≤ 0.08
Parallelism	≤ 0.08

CIRCULAR SIGHT GLASS



Circular Sight Glass data sheet:

(depend on DIN7080)

Dimensional tolerances	Diameter	up to 135 mm $\pm$ 0.5mm 150 to 200 mm $\pm$ 0.8 mm above 200 mm $\pm$ 1.0mm	
	Thickness	up to 20mm + 0.50 mm / – 0.25mm above 20mm + 0.80 mm / – 0.40mm	
Bending strength		≥ 160 n/mm ²	23,000 psi
Surface compressive stress		$\geq 100 \sim 140$ n/mm ²	14,500~21,000 psi
Parallelism		≤ 0.02 mm	
Flatness		dia. Up to 100mm ≤ 0.05 mm above 150 up to 200 ≤ 0.12 mm	above 100 up to 150mm ≤ 0.08 mm above 200mm ≤ 0.15 mm
Thermal shock resistance At		265K	
Max. permissible temperature		300 °C	572 °F
Protected with mica		320 °C	608 °F

Products Range:

Dimension (diameter x thickness) mm							
24 x 10	45 x 10	63 x 10	80 x 20	100 x 20	125 x 20	150 x 25	200 x 30
30 x 12	45 x 12	63 x 12	86 x 12	100 x 25	125 x 25	150 x 30	210 x 25
30 x 15	50 x 10	63 x 15	90 x 10	105 x 15	125 x 30	160 x 20	250 x 20
33 x 14	50 x 12	65 x 10	92 x 10	110 x 20	130 x 15	170 x 15	250 x 25
34 x 17	55 x 6,5	70 x 12	94 x 12	113 x 15	135 x 15	170 x 20	250 x 30
35 x 7	55 x 10	70 x 15	95 x 10	115 x 15	135 x 25	175 x 20	265 x 30
40 x 10	60 x 10	75 x 12	95 x 15	120 x 10	140 x 15	175 x 25	
40 x 12	60 x 12	80 x 10	100 x 10	120 x 15	150 x 10	175 x 30	
44 x 10	60 x 15	80 x 12	100 x 12	120 x 18	150 x 15	200 x 20	
44 x 12	60 x 20	80 x 15	100 x 15	125 x 15	150 x 20	200 x 25	
Other diameters and thicknesses can be customized.							

The below sight glass size can be customized:

- 1) Rectangle glass,
- 2) Circular glass,
- 3) Glass tube,
- 4) Irregular Glass.

Available glass material:

- 1) High borosilicate glass,
- 2) Quartz glass,
- 3) Soda Lime glass,
- 4) Ordinary glass