



AOHONG GLASS

Hengshui Aohong Special Glass Manufacturing Co., Ltd belongs to Aohong group limited. It is a modern high-technology enterprise specialized in production and sales of glass products with an experience of more than twenty years. We are equipped with the most advanced and complete machines and test facilities to produce high quality and various kinds of glass product. Meanwhile, we have our own sales department, it has been almost 20 years since we exported to overseas.



Aohong Group Limited
Hengshui Aohong Technology Co., Ltd.
Hengshui Aohong Special Glass Manufacturing Co., Ltd.

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OUR MAIN PRODUCTS



Reflex 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.

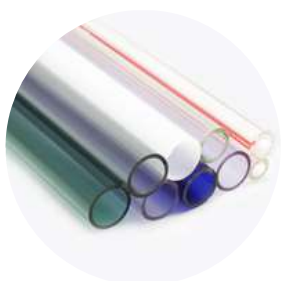
Our products have been sold all over the world, including German, USA, Italy, England, Japan, Russia, Korea, etc, they are very popular among users with excellent cost performance.



Circular glass



rectangle glass



Glass tube



Level bubble



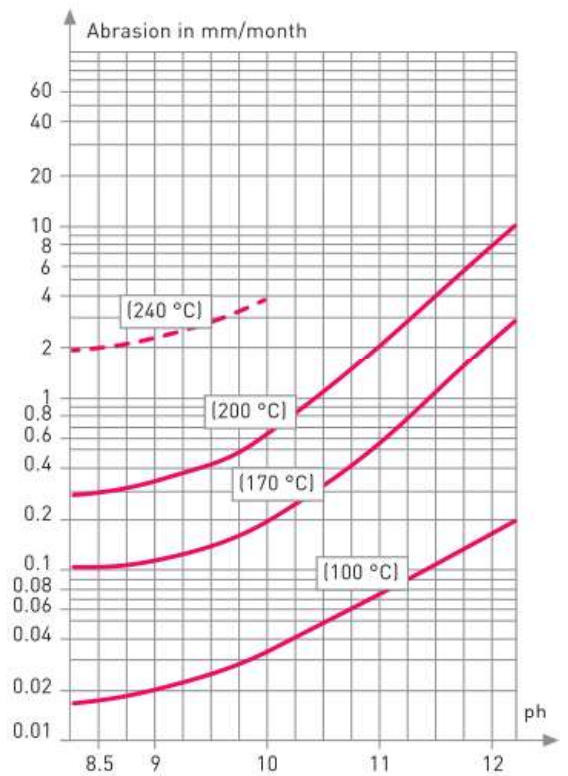
Gasket



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

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



Bending strength (typical values):

Reflex 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:

Reflex 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

Products Range:

(Production standard depend on DIN7081)

Reflex (with grooves)		Size Code	Transparent (without grooves)	
Type A	Type B		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 ± 0.5mm 150 to 200 mm ± 0.8 mm above 200 mm ± 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		≥ 100 ~140n/mm ² 14,500~21,000 psi
Parallelism		≤ 0.02 mm
flatness		dia. Up to100mm ≤0.05mm above 100 upto150mm ≤0.08mm above150upto200 ≤0.12mm above 200mm ≤0.15mm
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.

We can provide the products as below:



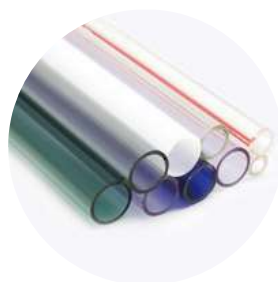
Level bubble



Glass Road Stud



Glass rod
(Transparent and colored)



Glass tube



gasket for sight glass