

OHARA QUARTZ High Quality Silica Glass

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High Purity Fused Quartz **SK-4304, SK-4306**

The OHARA high purity fused silica quartz SK-4304 and SK-4306 products have a particular feature in that the natural crystals are rigorously selected and fused with the flame of hydrogen oxygen gases for a considerable length of time. The amount of toxic impurities of alkaline metals as a result is extremely small and there are very few bubbles.

- Shapes : Plates, discs, blocks, tubes and rods.
- Applications : Jigs or tools used for the semiconductor industry, large-scale cleaning baths, sputtering targets and windows for withstanding high temperatures.

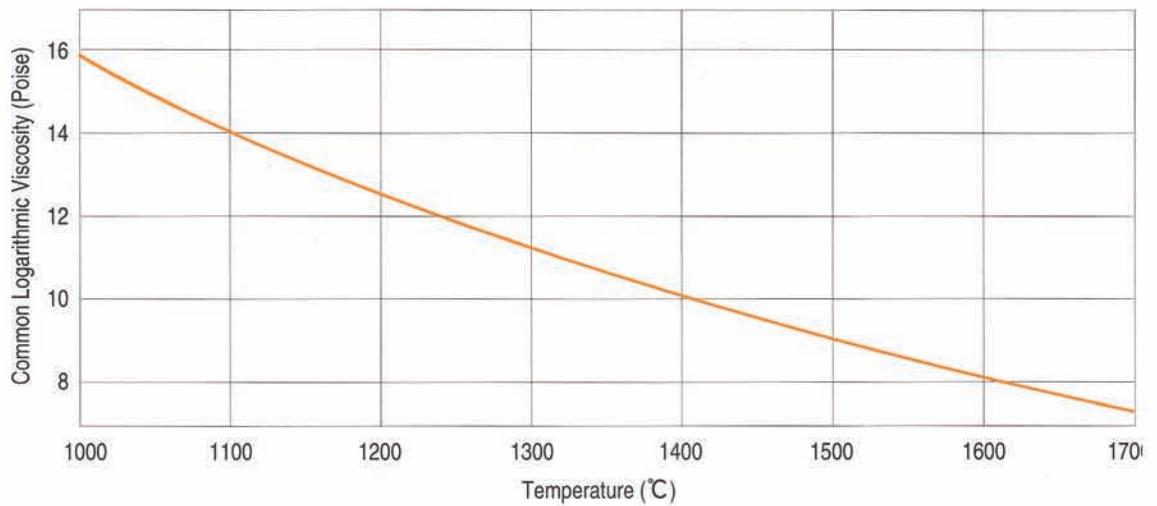
Typical Impurity Analysis	Element	AL	Fe	Ca	Cu	Na	K	Li	OH
	ppm	SK-4304	9	0.3	0.6	<0.03	0.3	0.3	<0.1
	SK-4306	8	0.2	0.4	<0.03	0.1	<0.1	<0.1	150

Chemical Resistance	Chemicals	Treatment temperatures (°C)	& hours (H)	Weight loss (mg/cm ²)
	H ₂ O	95	24	0.001
	5% HCl	95	24	0.01
	5% H ₂ SO ₄	95	24	0.01
	5% NaOH	95	6	0.7

Physical properties

Item	Unit	Value	Item	Unit	Value
Density	g/cm ³	2.20	Coefficient of thermal expansion	cm/cm°C	5.5×10^{-7}
Young's module	kg/mm ²	7440	Softening point	°C	1720
Poisson's ratio		0.17	Annealing point	°C	1170
Compression strength	kg/mm ²	115	Strain point	°C	1060
Bending strength	kg/mm ²	7.0			
Tensile strength	kg/mm ²	5.6			
Torsional rigidity	kg/mm ²	3000	Specific heat (26°C)	cal/g·°C	0.176
Vickers hardness	kg/mm ²	900~1000			

Viscosity



Transmission

