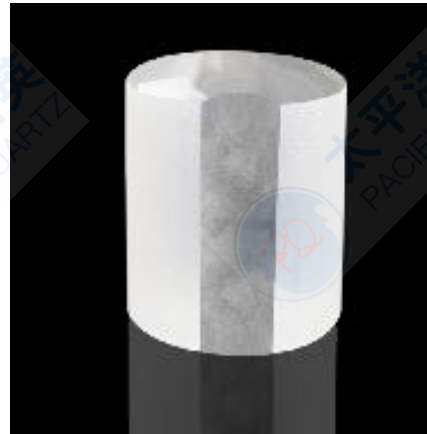




Synthetic Quartz Ingot

I. Application

Quartz materials for semiconductor and optical industries (LCD optical mask substrate, lens and mirror, aerospace window, large aperture reflection grating)



II. Product Feature

The synthetic quartz ingot is made with synthetic material by hydrogen and oxygen flame melting method.

Product feature is extremely high purity (total impurity content less than 0.2 PPM), high UV transmittance (internal transmittance of 185nm reaches over 92%), limiting bubble level and low stress.

III. Product type

PQ870, Synthetic Quartz Ingot

IV. Typical Size

Type	Shape	Size
PQ870	Ingot/plate/ring	300~450mm



V. Physical & Chemical Properties

i. Mechanical & Thermal Properties

	Value	Remark
Density g/cm ³	2.2	
Refractive Index	1.46	At 500nm
Softening Point °C	1600	$\eta=10^{7.6}$
Annealing Point °C	1080	$\eta=10^{13}$
Strain Point °C	980	$\eta=10^{14.5}$

ii. Impurity Content

Unit: ppm

	Na	K	Mg	Li	Ca	Fe	Al	Cu
Max Value	0.05	0.02	0.01	0.01	0.03	0.02	0.1	0.01

iii. Optical Properties

