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Fused Silica & Quartz

Ohara synthetic fused silica is produced by vapor-phase axial deposition and provides ultra-high purity, bubble free tubing and rods.

Ohara also supplies natural quartz tubes and rods made from high-purity crystals. We provide both hydrous and anhydrous (low OH content) quartz with low bubbles and high heat resistance.

(Please click on the orange material link below for pdf datasheet and more specific information.)

Method	Material	Characteristics	Application	Standard Size
Fused Silica	SK-1300 Series	<ul style="list-style-type: none"> The VAD method developed for optical fiber has been further improved to manufacture fused silica. 	<ul style="list-style-type: none"> Wafers for various types of devices such as TFT (poly-si thin-film transistor LCD), SOI (Silicon on Insulator) etc. 	[Tubes] <ul style="list-style-type: none"> Outer diameters of large size tubes 100~450mm Outer diameters of fine tubes 5 ~ 100mm
	SK-1300	<ul style="list-style-type: none"> Unparalleled, ideal characteristics are achieved. 	<ul style="list-style-type: none"> Photomask substrates for ultra-LSI and LCD. 	
	SK-1310	<ul style="list-style-type: none"> Ultra-high purity (total metallic impurities less than 0.5ppm) The OH content can be controlled to 1 ppm or less. 	<ul style="list-style-type: none"> Reactor furnace tubes, jigs and tools for ULSI manufacturing processes. 	[Rods] <ul style="list-style-type: none"> Outer diameters 3 ~ 200mm
	SK-1320 Tube & Rod	<ul style="list-style-type: none"> High heat resistance is ensured. High transmission is achieved. (The SK-1310 has excellent characteristics over the entire wavelength range of ultraviolet, visible, and infrared.) Contains no bubbles or striae. Excellent laser resistance properties 	<ul style="list-style-type: none"> Optical elements, lenses, mirrors and windows for ultraviolet and vacuum ultraviolet. Materials for optical fiber 	[Plates] <ul style="list-style-type: none"> •50~ 500mm round •50~ 1000mm square
Quartz	SK-4300 Series	<ul style="list-style-type: none"> Well selected natural crystal is fused by oxyhydrogen flame to manufacture high quality quartz 	<ul style="list-style-type: none"> Various industrial jigs for semiconductors 	[Tubes] <ul style="list-style-type: none"> Outer diameters of large size tubes 100 ~ 450mm Outer diameters of fine tubes 5 ~ 100mm
	SK-4304		<ul style="list-style-type: none"> Large-scale cleaning tanks 	
	SK-4306 Tube & Rod		<ul style="list-style-type: none"> Sputtering targets Experimental apparatus 	[Rods] <ul style="list-style-type: none"> Outer diameters 3~ 200mm [Plates] <ul style="list-style-type: none"> Up to 700 mm square

