

# Quartz Tubes

## Strength and Purity

Momentive's quartz tubes are manufactured to tight tolerances with consistent wall thickness, exceptional purity, and low thermal expansion. These tubes are ideal for demanding applications including semiconductor processing, fiber optics, and high-intensity lighting.

### PRODUCTS

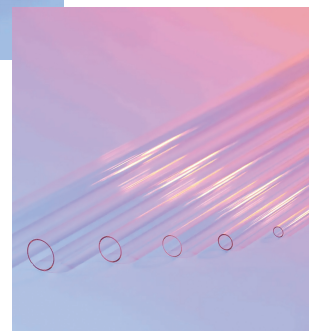
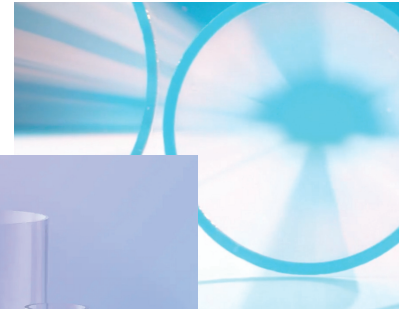
- Direct-drawn or resized diameters available up to 600mm or more
- Custom lengths, visual criteria, and end treatment options available

### PROPERTIES

- Outstanding mechanical and thermal performance
- Extremely high purity for demanding applications
- Bubble / airline-free options

### PRODUCTS/GRADES

Purity Format	Ultra high purity synthetic sand	High purity natural sand	Low alkali natural sand	Low aluminum / low alkali natural sand	UV block natural sand
<b>Tubing</b>	021	214	224	244	219



Power.  
Resistance.  
Control.



## TYPICAL MOMENTIVE QUARTZ GRADE IMPURITY LEVELS (PPMW)

	Al	Ca	Cu	Fe	Li	Mg	Mn	K	Na	Ti	Zr
<b>214</b>	15	0.5	<0.04	0.2	0.5	<0.05	<0.05	0.4	0.8	1.0	0.9
<b>224</b>	8	0.6	<0.003	0.2	0.2	<0.1	<0.05	0.1	0.1	1.4	0.6
<b>224LD</b>	15	0.5	<0.009	0.2	0.001	<0.05	<0.05	0.4	<0.05	1.00	0.9
<b>244</b>	8	0.6	<0.003	0.2	0.2	<0.1	<0.05	0.1	0.1	1.4	0.6
<b>021</b>	0.02	<0.05	<0.03	0.08	<0.05	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05
<b>219</b>	15	0.5	<0.04	0.2	0.5	<0.05	<0.05	0.4	0.8	N/A	0.9

### PATENT STATUS

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### PRODUCT SAFETY, HANDLING AND STORAGE

Customers should review the latest Material Safety Data Sheet (MSDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center.

### LIMITATIONS

Customers must evaluate Momentive Performance Materials Quartz, Inc. ("Momentive Technologies") products and make their own determination as to fitness of use in their particular applications.

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