

# Quartz

## Why Our Quartz?

Momentive Technologies offers a comprehensive range of high-purity fused quartz products designed to meet the rigorous demands of today's industries. From rods and tubes to solids, each product reflects our ongoing commitment to the highest standards of quality, the consistency you can depend on, and reliability you can trust. With unparalleled expertise in high-purity quartz manufacturing, our materials deliver the ultimate performance and the confidence to support your most advanced applications.

### KEY FEATURES

- **Exceptional Purity** – High levels of purity ensure performance in sensitive applications.
- **Thermal Stability** – Reliable operation under extreme temperatures.
- **Chemical Resistance** – Long-lasting in harsh environments.
- **Dimensional Precision** – Tight tolerances for critical applications.

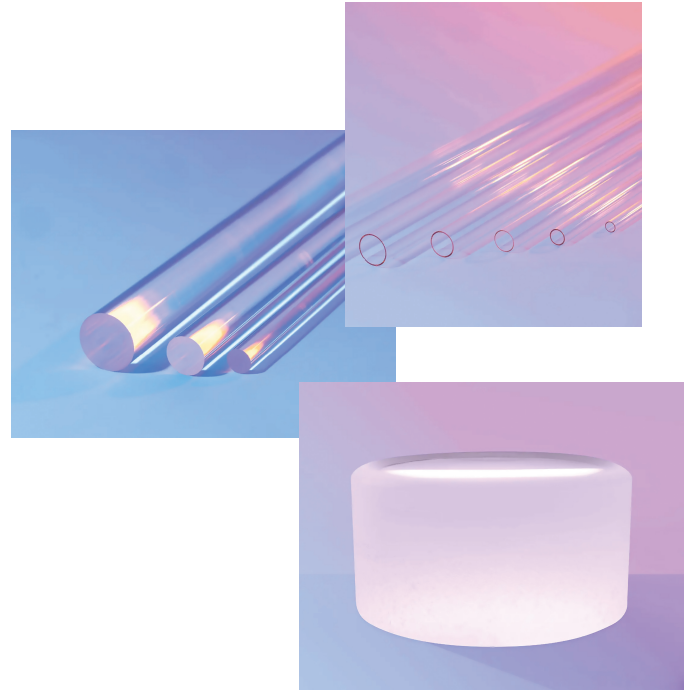
### APPLICATIONS

- Semiconductor Manufacturing
- Lighting
- Telecommunications
- Aerospace and Electronics

### GRADES

| Purity Format            | Ultra high purity synthetic sand | Low alkali natural sand | Low aluminum / low alkali natural sand | High purity natural sand |
|--------------------------|----------------------------------|-------------------------|--|--------------------------|
| 1800mm nominal diameter  | 012AA, 012AL                     |                         | 144AA                                  | 124, 124 AA              |
| i21 (max 555mm diameter) | i21-12                           |                         | i21-44                                 | i21-24                   |
| Opaque ingot             |                                  |                         |  | 124HDO                   |
| Tubing and Rod           | 021                              | 224                     | 244                                    | 214, 219*                |

\* UV block grade



Pure.  
Versatile.  
Sure.



## TYPICAL MOMENTIVE QUARTZ GRADE IMPURITY LEVELS (PPMW)

|                    | Al   | Ca    | Cu     | Fe   | Li    | Mg    | Mn    | K     | Na    | Ti    | Zr    |
|--------------------|------|-------|--------|------|-------|-------|-------|-------|-------|-------|-------|
| <b>124 / 124AA</b> | 15   | 0.6   | 0.03   | 0.2  | 0.5   | <0.05 | <0.05 | 0.6   | 0.8   | 1.2   | 0.9   |
| <b>144AA</b>       | 8    | 0.6   | <0.003 | 0.2  | 0.2   | <0.1  | <0.05 | 0.1   | 0.1   | 1.4   | 0.6   |
| <b>i21-24</b>      | 15   | 0.5   | <0.04  | 0.2  | 0.5   | <0.05 | <0.05 | 0.4   | 0.8   | 1.0   | 0.9   |
| <b>i21-44</b>      | 8    | 0.6   | <0.003 | 0.2  | 0.2   | <0.1  | <0.05 | 0.1   | 0.1   | 1.4   | 0.6   |
| <b>012AA</b>       | 0.02 | 0.05  | <0.03  | 0.08 | <0.05 | <0.05 | <0.02 | <0.05 | <0.05 | <0.02 | <0.05 |
| <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   |

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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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