

Quartz Solids

Unbreakable Clarity

Momentive quartz solids offer high purity and superior mechanical strength, making them ideal as structural components used in highly corrosive and extreme high-temperature environments. With strong thermal stability and chemical resistance, our solids support high-performance processing environments for the most demanding advanced applications.

PROPERTIES

- Consistent and reliable purity control for demanding applications.
- Better thermal stability from lower hydroxyl (OH) compared to flame fused solids.
 - » Lower OH offers better high temperature sag resistance.
 - » Reduced IR (Infrared) absorption in applications with IR heating.
- Large ingot format provides ultimate flexibility in machining wide range of components
 - » i21 format offer near net shape capability (i.e. reduces kerf loss) for critical disk applications

PRODUCTS/GRADES

Format	High purity natural sand	Low aluminum / low alkali natural sand	Ultra high purity (synthetic sand)
Large (1800mm) ingot	124, 124AA	144AA	012AA
i21 (up to 555mm) ingot	i21-24	i21-44	i21-12
Opaque ingot	124HDO		



Now Featuring i21 Quartz Solids

Momentive's i21 quartz solids represent our lowest-bubble fused quartz offering, engineered for the most demanding semiconductor and optical applications. Different purity grades are available depending on the application requirement. Compared to conventional flame-fused materials, i21 delivers superior homogeneity, lower hydroxyl (OH) content, and exceptional infrared transmission. Available in diameters up to 555mm (22"), i21 solids set the standard for performance in precision-critical environments.



Clean.
Flexible.
Performance.



TYPICAL MOMENTIVE QUARTZ GRADE IMPURITY LEVELS (PPMW)

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

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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