

HIGH PURITY QUARTZ

PROPOSED PRODUCTS SPECIFICATION SHEET

QUARTZ INDEX DETAILS - LUMP

PRODUCT CODE	CQL-0109	CQL-0319	CQL-0123	CQL-2312
Main fraction size (mm)	80-25	80-25	80-25	80-25
Mass portion of chemical impurities	ppm	ppm	ppm	ppm
Al	<200	<100	<50	<30
B	<1.0	<1.0	<0.8	<0.75
Ca	<20.0	<5.0	<5.0	<1.0
Cr	<3.0	<1.0	<0.1	<0.1
Cu	<5.0	<5.0	<5.0	<0.1
Fe	<100	<50	<15	<5.0
K	<20	<15	<5.0	<3.0
Li	<1.0	<1.0	0.1	<0.09
Mg	<20	<10	<5.0	<0.9
Mn	<5.0	<1.0	<0.2	<0.07
Na	<30	<25	<16	<16
P	<5.0	<5.0	<2.5	<1.0
Ti	<25	<25	<8.0	<4.0
Zr	<2.5	<2.5	<1.0	<0.15

Lump Quartz is highly suitable for:

- Feedstock for making very high grade Silicon (UMG Si), Solar Grade (polycrystalline) and for making Electronic Grade Silicon.
- High grade feedstock for crushing and making high purity silicon based chemicals.

QUARTZ INDEX DETAILS - MILLED

PRODUCT CODE	CQL-2303	CQL-2319	CQL-0806	CQL-8633
Main fraction size (mm)	6mm*	6mm*	6mm*	6mm*
Mass portion of chemical impurities	ppm	ppm	ppm	ppm
Al	<200	<30	<12	<12
B	<1.0	<1.0	<0.5	<0.5
Ca	<2.0	<2.0	<1.0	<0.5
Cr	0.5	<0.1	<0.1	<0.1
Cu	<5.0	<0.2	<0.15	<0.04
Fe	<100	<10	<5.0	1.0
K	<15	<8.0	<2.0	<2.0
Li	<1.0	<0.2	0.5	0.2
Mg	<10	<1.0	<0.15	0.8
Mn	1.0	<0.2	<0.05	<0.01
Na	<25	<15	<7.0	0.4
P	<5.0	<1.0	<1.0	<1.0
Ti	<25	<10	<7.0	0.7
Zr	<2.5	<1.0	<0.25	0.01

Crushed Quartz suitable for:

- Semiconductor
 - Fused (Opaque and Clear) Quartz ware
 - Optical Quartz Glass
 - TFT LCDs
 - Specialty Silica
- *Particle Size: deliverable as required. Any size below 6mm (6mm).

Analysis results as achieved by CSIRO, Australia.

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