

Requirements of High Purity Quartz stone for Photovoltaics Industry

From high purity silica (quartz sandstone, quartstone, gangsilica or silicic raw materials) after processing by beneficiation and purification, is the production of monocrystalline silicon, polysilicon, quartz glass, quartz crucible, silica film and other high-performance materials of the main raw materials, can be used in electronic technology, aerospace, optical fiber communication and military and other fields.

Appearance: photovoltaic high purity quartz stone should have a certain transparency of stones. Observed with 100 times magnifying lens.

They could be the following types:

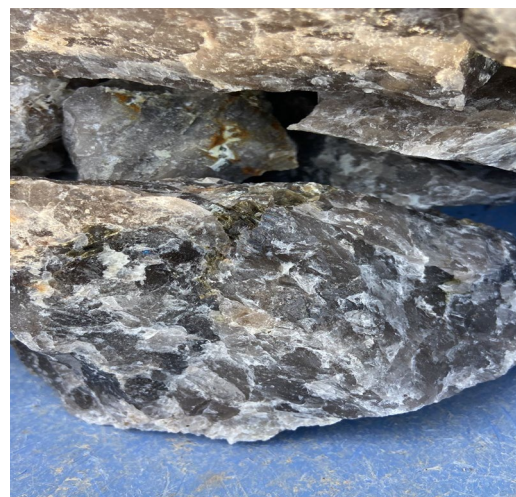
- 1 Mica- coated Quartz crystal Granules (Pegmatite)

NO L23



- 2 Mica-coated Quartz Black crystal Granules (Pegmatite)

NO N26





3 White Quartz Black crystal Granules





Chemical Analysis for HIGH PURIFY Quartz

Typical Values, ppm

NO	Compound	Results %
1	SiO ₂	99.95%-99.99
2	Al	≤ 8-12 mg/kg
3	Ca	≤ 1mg/kg
4	K	≤ 1 mg/kg
5	Mg	< 1 mg/kg
6	Li	≤ 1.0-1.5 mg/kg
7	Na	≤ 1 mg/kg
8	Ni	≤ 0.1 mg/kg
9	B	≤ 0.1mg/kg
10	Ti	≤ 1 mg/kg
11	Fe	< 1 mg/kg
12	Cr	< 0.1 mg/kg
13	B	< 0.1 mg/kg
14	Mn	< 0.1 mg/kg
15	Cu	< 0.1 mg/kg
16	Pb	< 0.1 mg/kg
11	The crystal can be transparent or translucent, the structure has to be well-distributed and uniformity	