

# CHARLES B. CRYSTAL CO., INC

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INDUSTRIAL MINERALS SINCE 1897

## HIGH PURITY QUARTZ, LOW ALPHA NC1-LA12

This is both a very high purity Silica and finely divided it is used as a filler where UV transmission and lack of alpha emitting elements is important. High Purity Quartz is completely different from standard commercial grades; the buyer can expect substantially different results due to the near zero impurities. .

### Chemical content of the solid material:

SiO<sub>2</sub> 99.996%  
Impurities 35 ppm

### Max values of other elements:

Na ppm	K ppm	Li ppm	Al ppm	Ca ppm	Fe ppm	Ti ppm	U ppb	Th ppb
4	1.5	5	28	1	1	5	0.5	0.3

### Content of water-soluble ions:

F <sup>-</sup>	mg/l	<0.05
Cl <sup>-</sup>	mg/l	0.16
NO <sub>2</sub> <sup>-</sup>	mg/l	<0.05
Br <sup>-</sup>	mg/l	<0.1
NO <sub>3</sub> <sup>-</sup>	mg/l	0.42
PO <sub>4</sub> <sup>3-</sup>	mg/l	<0.2
SO <sub>4</sub> <sup>2-</sup>	mg/l	<0.2

### Particle size per cilas:

-50 micron	99.73%
-20micron	73.07%
-10 micron	45.03%.
-5 micron	28.17%
-2 micron	13.79%
-1 micron	4.98%

### Whiteness:

RX	RY	RZ	R457
98.0	97.8	97.6	97.4

### Conductivity:

mS/m (□S/cm)	0.21
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### pH:

pH	6.5
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