

# CB MINERALS

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INDUSTRIAL MINERALS SINCE 1897

## HIGH PURITY QUARTZ, LOW ALPHA NC1-LA5

This is both a very high purity Silica and micronized to 5 micron average particle size. It is used as a filler in electronic applications where UV transmission and a lack of impurities, including traces of alpha emitting elements, are important. High Purity Quartz is completely different from standard commercial grades; the buyer can expect substantially different results due to the near zero impurities

### GRAIN SIZE DISTRIBUTION:

d <sub>10</sub>	3µm,
d <sub>50</sub>	5 ±1µm
d <sub>90</sub>	9µm
d <sub>100</sub>	17µm

### CHEMICAL ANALYSIS:

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

### 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

### WHITENESS:

RX	RY	RZ	R457
98.0	97.8	97.6	97.4

### CONDUCTIVITY:

mS/m (µS/cm)	0.21
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### pH:

pH	6.5
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