

CHARLES B. CRYSTAL CO., INC

689 Mamaroneck Ave.

Mamaroneck, NY 10543

Tel: 914 777 3330 Fax: 914 777 3035

WEB SITE: www.cbcrystal.com

E-Mail: info@cbcrystal.com

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 ₁₀	3µm,
d ₅₀	5 ±1µm
d ₉₀	9µm
d ₁₀₀	17µm

CHEMICAL ANALYSIS:

SiO ₂	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 ⁻	mg/l	<0.05
Cl ⁻	mg/l	0.16
NO ₂ ⁻	mg/l	<0.05
Br ⁻	mg/l	<0.1
NO ₃ ⁻	mg/l	0.42
PO ₄ ³⁻	mg/l	<0.2
SO ₄ ²⁻	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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