



# Texan Minerals and Chemicals LLC

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## SILLIMANITE SAND SPECIFICATIONS

### CHEMICAL ANALYSIS:

#### i) Guaranteed:

Al<sub>2</sub>O<sub>3</sub> 58.00 % (Min)

#### ii) Typical:

Al<sub>2</sub>O<sub>3</sub> 58.00 %

SiO<sub>2</sub> 37.10 %

ZrO<sub>2</sub> 2.20 %

TiO<sub>2</sub> 0.25 %

Fe<sub>2</sub>O<sub>3</sub> 0.40 %

### SIEVE ANALYSIS (Typical):

Mesh (Tyler Scr.)	Sieve openings (microns)	Weight (%) retained
48	300	0.7
65	212	11.3
100	150	55.8
150	106	29.6
170	90	0.9
200	75	1.5
-200	-75	0.2

### SILLIMANITE FLOUR IS ALSO AVAILABLE IN SIZE RANGE OF 5-40 MICRONS

Specific gravity: 3.20 – 3.25

Bulk density, Kg/m<sup>3</sup>: 1950 – 2050

Hardness, (MOH's): 6.0 – 7.0

Solubility in water: Insoluble

Monazite content level: 0.06%

Radiation level: Below detection level (BDL)

Flammability: Not flammable

Melting point: 1850 °C

Mullite transformation: 1350-1550 °C

Moisture: 0.5 %

Chloride level: 4.0 ppm

**Note:** 1 Sillimanite being a natural product, its chemical analysis is expected to vary.  
2 Variation in the size of grains occur from time to time. Although not guaranteed, the grain size distributions can be expected to be within the above range.

*Packaging:* Packed in 1 MT (2204.6 lbs) Jumbo bags.