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## PRODUCT DATA SHEET

### CF-Colortone

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CF-Colortone is a unique product created by a proprietary process involving the use of plasma reactor technology. In this process, zircon is thermo-chemically transformed from a single crystalline material into its constituents, zirconia ( $ZrO_2$ ) and amorphous silica ( $SiO_2$ ). The zirconia, having the higher melting point, crystallizes first, forming a mass of tiny dendrites. The silica then solidifies in an amorphous glassy phase between the zirconia dendrites.

### Typical Chemical Analysis

<b>ZrO<sub>2</sub> (+HfO<sub>2</sub>)</b>	66.5
<b>SiO<sub>2</sub></b>	31.6
<b>Al<sub>2</sub>O<sub>3</sub></b>	0.50
<b>Fe<sub>2</sub>O<sub>3</sub></b>	0.05
<b>TiO<sub>2</sub></b>	0.10

**Typical Average Particle Size (D<sub>50</sub>):** 140 Microns  
(See example attached)

### Applications

CF-Colortone is typically used to manufacture:

- Ceramic Pigments & Colors
- Refractories
- Structural Ceramic Components

### Packaging

The CF-Colortone is 1 Metric Tonne bulk bags, one bag to a pallet.