Continental Mineral Processing

SPECTRALUX OPACIFIERS PRODUCT SHEET

PROPERTIES OF CONTINENTAL MINERAL PROCESSING SPECTRALUX OPACIFIER ($ZRSIO_4$)		
Typical Chemical Analysis (in weight %)		
*ZrO_2	Zirconium Oxide	65% Min.
SiO_2	Silicone Dioxide	32.5% Typ.
Al_2O_3	Aluminum Oxide	2.0% Max.
TiO_2	Titanium Dioxide	0.35% Max.
Fe_2O_3	Iron Oxide	0.15% Max.
U & Th	Uranium & Thorium	475 Max.
P_2O_5	Phosphrus Pentoxide	0.09% Typ.
**Includes 1-4% Hafnium Oxide HfO_2*		

TYPICAL PHYSICAL PROPERTIES	
Melting Point	Greater than 4000°
Coefficient of Thermal Expansion	4.2 x 10^{-6}cm/cm/°C
Hardness	7.5 Moh's Scale
Thermal Conductivity	14.5 BTU/sq. ft./hr./°F/in.
Index of Refraction	2.0
Thermal Stability	no change to 3090°F (1700°C)

AVERAGE PARTICLE SIZE	
1500 Spectralux	6.0 – 8.0 Microns
3500 Spectralux	1.90 – 2.10 Microns
4500 Spectralux	1.65 – 1.75 Microns
5500 Spectralux	1.40 – 1.5- Microns
6000 Spectralux	1.20 – 1.30 Microns
7000 Spectralux	0.95 – 1.05 Microns

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