



DATA SHEET

Ds: 2021-03-22

ZIRCON SILICATE KREUTZONIT SUPER EXTRA WEISS S

TYPICAL PARTICLE SIZE: d50: 0,8 – 0,9 micron

Typical chemical and physical properties:

Chemical Analysis		typical	guaranteed	Properties	
Zirconia (incl. Hafnium)	ZrO ₂ (+HfO ₂)	65,38%	64,00% min.	Specific Gravity	4,60 g/cm ³
Silicia	SiO ₂	33,68%	34,00% max.	Hardness (mohs)	7,50
Titania	TiO ₂	0,05%	0,10% max.	Melting Point	2.200,00 °C
Alumina	Al ₂ O ₃	0,75%	0,97% max.	Humidity / Moisture	0,20% max.
Iron Oxide	Fe ₂ O ₃	0,03%	0,05% max.	Loss on ignition	1,00% max.

All analysis on an "as received" basis

Zircon Silicate is a processed natural raw material and as such slight variations in the chemical analysis and size distribution should be expected.

Specific radioactivity

Parent activity¹

Thorium (²³² Th parent)	0,36 Bq/g(±2,5%)		
Uranium (²³⁸ U parent)	3,17 Bq/g(±2,5%)	Thorium (Th)	88,00 ppm
Total (²³² Th + ²³⁸ U)	3,53 Bq/g(±2,5%)	Uranium (U)	254,00 ppm

¹Specific activity is calculated from the TH & U assay

The prescription to calculate this mineral activity using whole Uranium and Thorium chains is based on the International Atomic Energy Agency Basic Safety Standards 1996 and the International Dangerous Goods Regulations.

Storage: Product is not temperature-sensitive.
At appropriate dry storing it is best for an unlimited period.

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