

GENERAL SPECIFICATION ZIRCON FLOUR

ZrO₂ 65 %, 75 μm

General type

COMPOSITION / INFORMATION INGREDIENT

Code: ZF-75

Date: 2024/09/12

Guaranteed Chemical Analysis:

ZrO ₂ + HfO ₂	65.0 % Min
Fe ₂ O ₃	0.12 % Max
TiO ₂	0.15 % Max

Guaranteed Size Analysis:

Dv 95	75 μm Max
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Typical Chemical Analysis:

It must be expected that some variation in chemical analysis will occur from time to time due to the varying nature of the BinhThuan heavy mineral orebody.

However, produced grades will be controlled within close limits.

ZrO ₂ +HfO ₂	65.0 - 66.5 %
Fe ₂ O ₃	0.05 - 0.12 %
TiO ₂	0.04 - 0.15 %
Al ₂ O ₃	0.3 - 1.2 %
SiO ₂ (Total)	32.0 - 33.5 %
P ₂ O ₅	0.05 - 0.15 %
U + Th	500 - 700 ppm
L.O.I	0.2 % Max
Moisture	0.2 % Max

Size Distribution:

Typical physical Properties

Chemical formula	ZrSiO ₄	Crystal system	Tetragonal
Colour	White	Melting point	2200 - 2300 °C
Specific Gravity	4.7 - 4.9	Flash point	None
Bulk Density	1800 - 2000 kg/m ³	Exploration limit	None
Hardness (Morh)	7.5	Volatise	None
Reactivity	Inert	Solubility (water)	Insolution

Aperture (Microns)	Volume Under (Wt%)
75	100
52	97
45	95
36	90
26	75
15	50
1.3	10

The typical size distribution, can be expected to be as shown in the above table and graph.

