

Product Description

ORC's zircon concentrate is mined and processed in Coos Bay, Oregon. Our zircon is processed in two stages. The product, as raw ore, goes through a wet mill in which the sands are washed, along with other heavy mineral concentrate. This is to remove and to minimize the amount of dirt, clays, and ultra-fines. The second processing step removes the zircon from the raw ore through a dry mill in which the materials are separated from the other specialty minerals by physical means to produce a zircon concentrate that maintains consistent chemical and physical properties.



Typical Sizing Analysis- Percent Retained on each Mesh

Mesh Size	Microns	Zircon Concentrate
20	850	0.0
40	425	0.0
50	300	0.3
70	212	13.6
100	150	22.7
140	106	54.5
200	75	8.9
270	53	0.0
Pan	<53	0.0

Typical Chemical and Physical Properties

Element	Zircon Concentrate Average	Specification Limits For Zircon Concentrate
ZrO ₂	54.0%	≥ 50.0 %
Cr ₂ O ₃	0.6%	-
Al ₂ O ₃	2.5%	-
SiO ₂	35.1%	-
TiO ₂	3.7%	-
MgO	9.47	-
Fe ₂ O ₃	1.1%	-
HfO ₂	1.1%	-
U ₃ O ₈ + ThO ₂	445ppm	≤ 500 ppm

Typical Physical Properties

Property	Typical Result For Zircon Concentrate	Units
AFS GFN	89.7	-
AFS Clay Content	0.22	%
LOI	0.55	%
Moisture	0.09	%
Bulk Density	161.3	lb/ft ³
Specific Gravity	2.6	-

Product Application

- Investment Casting
- Chemicals
- Ceramics
- Foundry Coatings
- Refractory Coatings
- Frit and Color Pigments
- Electronics

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IMPORTANT: The technical data herein is believed to be accurate. Zircon is a naturally occurring mineral and is therefore subject to variability. The levels referenced herein are only for general guidance and do not constitute a firm specification. This information is offered for your consideration and enquiry.