

Product Description

SpheriChrome™ is mined and processed in Coos Bay, Oregon. This chromite is unique because of its rounded grain structure and two screen distribution. It also has impressive chemical characteristics, such as a very low percentage of silica and iron. This allows SpheriChrome™ to outperform other chromites and makes it an excellent replacement for zircons due to an increased sinter point. Through the processing stages SpheriChrome™ is washed to minimize the amount of dirt, clays, and ultra-fines. This washing process eliminates many low melt point fines that are commonly associated with causing casting defects.



Product Features

- High thermal conductivity
- Low thermal expansion
- Better cast surface finish, lowering cleaning and finishing costs
- Ability to blend and/or replace zircon sand formulations
- Improved mold handling strengths
- Ability to lower binder content

Typical Sizing Analysis- Percent Retained on each Mesh

Mesh Size	Microns	SpheriChrome™
20	850	0.0
40	425	0.0
50	300	0.1
70	212	4.0
100	150	55.6
140	106	39.7
200	75	0.6
270	53	0.0
Pan	<53	0.0

Chemical Properties

Element	Specification Limits For SpheriChrome™
Cr ₂ O ₃	≥ 45.5%
Fe ₂ O ₃	≤ 28.0 %
Al ₂ O ₃	-
SiO ₂	≤ 0.07%
TiO ₂	≤ 2.0 %
MgO	-

Physical Properties

Property	Typical Result For SpheriChrome™	Units
AFS GFN	81.5	-
Turbidity	300	NTU
AFS Clay Content	0.09	%
LOI	-1.60	%
ADV (pH 7)	1.39	-
Moisture	0.05	%
pH	6.82	-
Bulk Density	160	lb/ft ³
Specific Gravity	4.4	-

Product Application

- Molding (Zircon Replacement)
- Facing sand (Zircon Replacement)
- Core making processes (Zircon Replacement)
- Prime coat Stucco for Precision Investment Casting (Zircon Replacement)

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IMPORTANT: The technical data herein is believed to be accurate. Chromite 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.