Chromite Specification

Description:

Chromite ore supplied as lumpy material with particle sizes ranging from fines up to lumps of approximately 25 cm. Cargo color is grayish to light gray.

Applications:

- **Ferrochrome Production**: Chromite is reduced in electric arc furnaces to produce ferrochrome, the primary alloying material for chromium.
- **Stainless steel production:** Ferrochrome derived from chromite is used to provide corrosion resistance in stainless steel manufacturing.
- **Alloy steel production:** Chromite-based chromium improves hardness, strength, and heat resistance in alloy steels.
- **Refractory bricks:** Used to produce magnesia-chrome refractory bricks due to its excellent thermal and chemical stability.
- **Foundry sand:** Chromite sand is applied in casting molds for high-temperature metal casting because of its high thermal resistance.
- **Chemical industry (Cr-based chemicals):** Processed to produce chromium chemicals such as sodium dichromate, chromic oxide, and industrial pigments.
- **Glass & Ceramics:** Acts as a stabilizer and colorant in glass formulations and ceramic glazes.
- **Leather Tanning:** Chromite-derived chromium compounds are used in leather tanning for fiber stabilization.
- **Electroplating Industry (Plating):** Chromium compounds from chromite are used to produce chromium plating for corrosion-resistant metal coatings.
- **Paints & Pigments Industry:** Chromium oxide green and other chromite-derived pigments are used in industrial paints, coatings, and ceramics

Packing:

- Palletized bag in container
- 1 m^3 jumbo bags in container

Health and Safety:

- Avoid inhalation of dust.
- Use gloves and protective mask when handling.
- Store in a cool and dry place away from moisture.

Chromite Analysis

Oxide	Unit	Content
SiO_2	%	9.58

Tel: +98 21 72065436 Web: www.bhpbitumen.com Email:info@bhpbitumen.com
Add: No.11, Golkhaneh St., Nelson Mandela Blvd., Tehran, Iran

BHP Minerals

Oxide	Unit	Content
Al_2O_3	%	7.58
Cr_2O_3	%	42.28
MgO	%	21.63
P	%	<0.01
S	%	<0.05
Cr/Fe	%	2.89
Mg/ Al	%	3.25

Physical Properties

Property	Unit	Specification
Moisture Content	%	0.204

Chromite Raw

Applications

Tel: +98 21 72065436 Web: www.bhpbitumen.com Email:info@bhpbitumen.com
Add: No.11, Golkhaneh St., Nelson Mandela Blvd., Tehran, Iran