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## CHROMITE FLOUR TECHNICAL DATA SHEET

### 铬矿粉技术参数表

**产品名称/ PRODUCT:** Chromite Flour/铬矿粉

#### 产品描述/ Description :

铬矿粉是一种天然的无机矿物粉末。它是一种以 FeO 和 Cr<sub>2</sub>O<sub>3</sub> 为主要成分的复合矿物。铬矿粉的质量来自于不同品位的铬矿砂的品质。我厂选用 46-50% 含量和 40-42% 的非洲铬矿为原料, 采用先进的研磨设备和制备方法, 得到适合色料和铸造冶金领域的铬铁矿粉。铬矿粉用于绿色/茶色玻璃或陶瓷领域可以部分代替氧化铬绿, 具有良好的成本效益。铬矿粉作为耐火材料, 也可以用于耐火浇注料和铸造涂料的添加材料。

Chromit flour is a natural inorganic mineral powder. It is a composite mineral with FeO and Cr<sub>2</sub>O<sub>3</sub> as the main components. The quality of chrome ore powder comes from the quality of chrome ore sand of different grades. Our factory uses 46-50% content and 40-42% African chrome ore as raw materials, and adopts advanced grinding equipment and preparation methods to obtain iron chromite flour suitable for colorants and foundry metallurgy. Chrome ore powder can be used in the field of green/brown glass or ceramics to partially replace chromium oxide green, with good cost-effectiveness. As a refractory material, chrome ore powder can also be used as an additive for refractory castables and casting coatings.

#### 产品特点/Features :

- 耐火温度高, 高温稳定性好, 1800°C 下理化性能稳定。/ High refractory temperature, good high temperature stability, stable physical and chemical properties at 1800°C.
- 耐热冲击性好, 耐腐蚀玻璃和熔渣。/ Good thermal shock resistance, corrosion resistance to glass and slag.
- 导热性能良好, 热膨胀率低。/ Good thermal conductivity, low thermal expansion rate.
- 氧化铬含量分为 46% 和 41% 两种。/ Chromium oxide content is divided into 46% and 41%.
- 粒度大小均匀细腻, 粒度控制严格。/ Uniform and fine particle size, strict particle size control.
- 成本低, 性价比高。/ Low cost, high cost performance.
- 比重高, 耐磨性能优异。/ High specific gravity, excellent wear resistance.

#### 化学成分/CHEMICAL COMPOSITION:

成分/Item	保证值/Guarantee Value ( % )	典型值/Typical Value ( % )
Cr <sub>2</sub> O <sub>3</sub>	≥46.0%	46.40%
SiO <sub>2</sub>	≤1.0%	0.88%
FeO+Fe <sub>2</sub> O <sub>3</sub>	26-28%	26.89%
Al <sub>2</sub> O <sub>3</sub>	≤15.5%	13.70%
TiO <sub>2</sub>	≤1.0%	0.65%
CaO	≤0.3%	0.12%
MgO	≤10%	9.35%
Na <sub>2</sub> O	≤0.5%	0.12%
MnO	≤0.5%	0.32%
ZnO	≤0.2%	0.088%

NiO	≤0.2%	0.107%
P	≤0.003%	/
S	≤0.003%	/

**物理指标/ PHYSICAL PROPERTIES:**

莫氏硬度 Mohs hardness	5.5-6
熔点 Melting point	2180 °C
烧结温度 Sintering temperature	> 1800°C
比重 Specific gravity	4.0-4.8 g/cm <sup>3</sup>
堆积密度(LPD) Bulk density	2.5-3 g/cm <sup>3</sup>
外观颜色 Appearance Color	深棕黑色 Dark Brown or black
PH 值 PH value	7-9
酸耗值 Acid demand Value	≤5ML
土壤含量 Soil content	≤0.1
水分含量 Moisture	≤0.1

**粒度分布/SPECIFICATION:**

粒度/Grit	粒度范围/Particle range
Iron chromite flour 铬铁矿粉 200#-0	0-75um
Iron chromite flour 铬铁矿粉 270#-0	0-50um
Iron chromite flour 铬铁矿粉 325#-0	0-45um
Iron chromite flour 铬铁矿粉 400#-0	0-38um
Iron chromite flour 铬铁矿粉 600#-0	0-23um
Iron chromite flour 铬铁矿粉 800#-0	0-18um
Iron chromite flour 铬铁矿粉 1000#-0	0-13um
Iron chromite flour 铬铁矿粉 1200#-0	0-10um
Iron chromite flour 铬铁矿粉 1500#-0	0-8um
Iron chromite flour 铬铁矿粉 2000#-0	0-6.5um
Iron chromite flour 铬铁矿粉 2500#-0	0-5um

\*其他型号可接受定制生产 Other grit is available upon request.。

**APPLICATIONS/产品用途：**

- 平板玻璃的绿色、琥珀色着色颜料。/Green and amber coloring pigments for flat glass.
- 陶瓷釉料颜料。/Ceramic glaze pigments.
- 酒类玻璃容器例如啤酒瓶、红酒瓶、香槟酒瓶的绿色和茶色染料。/Green and brown dyes for alcoholic glass containers such as beer bottles, red wine bottles, and champagne bottles.
- 装饰玻璃、视频玻璃的绿色着色剂。/Green colorant for decorative glass and video glass.
- 耐火浇注料制成镁铬耐火砖等。/Refractory castables to make magnesium-chrome refractory bricks, etc.
- 铸造涂料，耐火涂层。/Casting coatings, refractory coatings.
- 刹车制动产品的耐磨涂层、耐磨填料。/Wear-resistant coatings and wear-resistant fillers for brake products.

**产品包装/PACKAGE:**

- 1000 公斤/吨包。/1000KGS per Jumbo bag.
- 25 公斤/编织袋+1000 公斤/吨包。/25KGS per PP bag+1000KGS per jumbo bag.
- 25 公斤/编织袋+1000 公斤/托盘。/25KGS per PP bag+1000KGS per Pallet.