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CHROMITE SAND 50-100# TECHNICAL DATA SHEET

铬矿砂 50-100 目技术参数表

PRODUCT/产品: Chromite Sand 50-100# (AFS45-55) /铬矿砂 50-100 目

FEATURE/特性: 比重高、激冷、耐火温度高、导热性能优良、防粘砂、流动性好、抗钢水侵蚀性优异。

CHEMICAL COMPOSITION/化学成分:

Item	Guarantee Value/保证值 (%)	Typical Value/典型值 (%)
Cr ₂ O ₃	≥46.0	46.55
SiO ₂	≤1.0	0.89
Fe ₂ O ₃	≤27.5	27.0
Al ₂ O ₃	≤15.5	14.3
MgO	≤10.0	9.7
CaO	≤0.3	0.2
P	≤0.003	0.001
S	≤0.003	0.001
Soil content/含泥量	≤0.1	/
Moisture/水分含量	≤0.1	0.05
L.O.I/烧失量	≤0.5	0.1

PHYSICAL PROPERTIES/物理指标:

Formula/化学式	(Fe,Mg)Cr ₂ O ₄
CAS NO./CAS 号	1308-38-9
Specific Weight/比重	4.0-4.8 g/ cm ³
Hardness/硬度	5.5-6.0Mohs scale
Sintering point/烧结温度	> 1800°C
Melting Point/熔点	2180°C
PH 值	7-9
Acid demand value/酸耗值(ADV)	≤5ML
Thermal expansion/热膨胀率(1000°C)	0.6%
Thermal conductivity/导热系数	0.63 W/M·K

PARTICLE SIZE DISTRIBUTION/粒度分布:

Mesh#目数	Mesh size(um)筛网尺寸	Typical Value(%)典型值
+40	425	4.5
+50	300	31.6
+70	212	47
+100	150	12.3
-100	150	4.5
AFS 细度值	50.7	

APPLICATIONS/用途:

- Surface sand and molding sand used in sand casting, no-bake sand, water glass resin sand and other casting processes./ 型砂铸造、呋喃树脂自硬砂、水玻璃树脂砂等铸造工艺的面砂和型砂。
- Resin coated casting sand./ 覆膜砂铸造。
- Core moulding sand./ 壳型铸造的芯砂。
- Foundry sand for heavy thick-walled castings, high manganese steel with high pouring temperature, and alloy steel castings./大型厚壁铸件、浇注温度高的高锰钢、合金钢铸件的铸造砂。
- Moulding sand and core sand for small and medium-sized castings such as stainless steel, carbon steel, high chromium carbon steel, and manganese steel./不锈钢、碳钢、高铬碳钢、锰钢等中小型铸件的型砂和芯砂。
- Raw material Well filer sand of ladle nozzle./钢水包水口的引流砂。
- Refractory aggregate./耐火骨料。

PACKAGE/包装:

1Ton/Jumbo bag/1 吨/吨包