

# CHROMITE SAND

**Chromite sand** is a naturally occurring spinel consisting primarily of the oxides of chrome and iron. It is a by-product of ferro-chrome production and is mainly used in foundry applications and in glass production.

**Origin:** South Africa

## CHEMICAL&PHYSICAL PROPERTIES

Cr <sub>2</sub> O <sub>3</sub>	≥46.0%
SiO <sub>2</sub>	≤1.0%
FeO	≤26.5%
CaO	≤0.30%
MgO	≤10.0%
Al <sub>2</sub> O <sub>3</sub>	≤15.5%
P	≤0.003%
S	≤0.003%
Cr/Fe	1.55:1
Bulk Density	2.5-3g/cm <sup>3</sup>
Color	Black
PH	7-9
The amount of the acid	≤ 2 ML
Percent soil	≤0.1
Percent Moisture	≤0.1
The sintered	1600°C
Percentage of free acid present in the sand	0
Filling density	2.6g/cm <sup>3</sup>
Sintering point	> 1,800°C
Melting temperature	2,180°C

**AVAILABLE SIZES:** 0-1mm 1-3mm AFS 25-35 AFS25-30 AFS30-35 AFS35-40 AFS40-45 AFS40-50 AFS45-55  
AFS45-50 AFS50-55 AFS55-60 AFS60-65 200mesh 325mesh 400mesh etc

## MAINLY APPLICATIONS:

Chromite Sand in the foundry industry

Its properties enable the material to be used in high duty grey iron and steel foundries as core and mould making sand. Its high thermal conductivity gives it good chilling properties, low thermal expansion gives rise to good dimensional stability. Its basicity being close to neutral allows the use of a wide range of resin bonding systems and inorganic binders, it has a high refractoriness and a broad sieve distribution.

Chromite Sand in the steel industry

In steel production, Chromite Sand is used as well filler for protection of the sliding gate in large steel holding ladles.

Chromite Sand in the glass industry

When ground to a fine flour, Chromite Sand is used for the production of green glass beverage containers.

**PACKAGING:** 1mt big bag