

Chromite Sand

Technical Data Sheet

Typical Chemical Analysis (%):

Chromium Oxide Cr ₂ O ₃		46.42
Iron Oxide	Fe ₂ O ₃	27.20
Aluminum Oxide AL ₂ O ₃		14.80
Magnesium Oxide	MgO	9.85
Silicon Dioxide	SiO ₂ (total)	0.75
Titanium Oxide	TiO ₂	0.67
Manganese Oxide	MnO	0.23
Calcium Oxide	CaO	0.22
Phosphorus Pentoxide	P ₂ O ₅	0.05
Sodium Oxide	Na ₂ O	0.03
Potassium Oxide K ₂ O		0.02
Loss On Ignition LOI		0.15

Typical Physical Properties:

Colour	Shiny black	Grain Shape	Sub-angular
Specific Gravity	~ 4.4	Melting Point (°F)	3350 - 4000
Bulk Density (loose)	163 lb/ft ³	Melting Point (°C)	1850 - 2200
Bulk Density (compacted)	181 lb/ft ³	Solubility	Negligible

Typical Gradation:

U.S. Mesh	Microns	Fractional %	
		Min	Max
20	850	0.0	10.0
30	600	1.0	12.0
40	425	5.0	24.0
50	300	14.0	34.0
70	212	21.0	46.0
100	150	9.0	40.0
140	106	0.0	5.0
200	75	0.0	2.0
270	53	0.0	1.0
PAN	0	0.0	1.0
Grain Fineness #:		52.9	

