



RAND YORK
MINERALS

Official Certificate of Analysis

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Benmore 2010 South
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BATCH SPECIFICATION SHEET -
PH-00090

RANDYORKSA.COM



FOUNDRY CHROMITE SAND AFS 55-60 – PH55

Foundry grade chromite sand is used for its unique properties, high thermal conductivity, heat resistant, low heat dilating and a cost-effective way to produce and use in some of the below applications:

- Specially treated molds
- Quality castings
- Metal casting
- Automotive castings
- Alloys such as stainless steel
- Chrome plating
- Metal ceramics
- Is used impart corrosion resistance and a shiny finish; as dyes and paints, its salts color
- Glass an emerald green
- Is used to produce synthetic rubies;
- As a catalyst in dyeing and in the tanning of leather

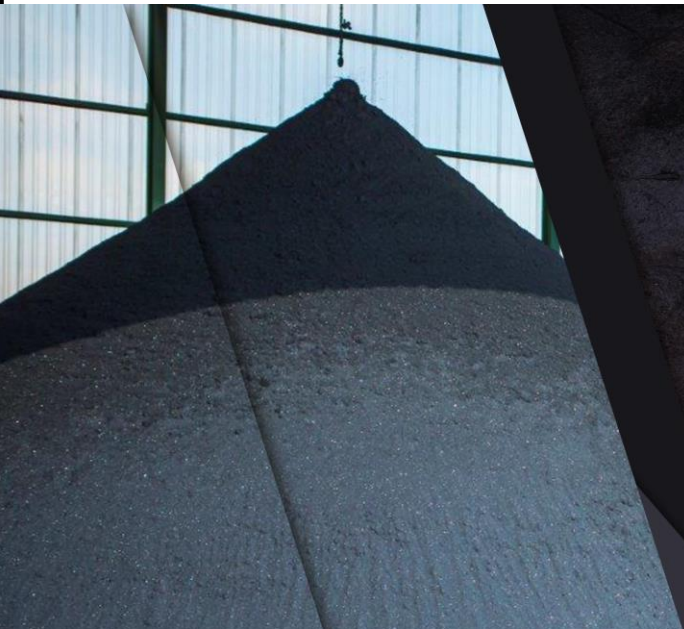
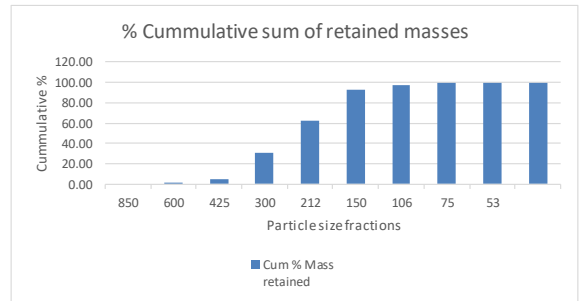
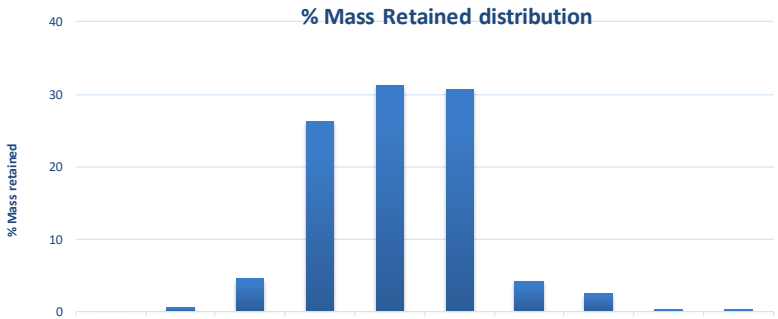
ANALYSIS ON DRY BASIS

ANALYSIS/DETERMINATION	Typical VALUE
CR ₂ O ₃ (%)	47.68
SiO ₂ (%)	0.89
FeO (%)	24.87
Cr :Fe Ratio	1.69
CaO (%)	0.2
Al ₂ O ₃ (%)	14.47
MgO	9.65
AFS	57.02
Moisture	0.0005
Turbidity	178 NTU
Turbidity	59.33 PPM
pH	8.19
pH 3	5.9
pH 4	2.2
pH 5	1.6
LOI	1.6

*All bagged cargo is guaranteed at 0.05% moisture

ARX FOA-064	AFS SPECIAL							
Sieve size (µm)	Mass (g) retained [A]	Factor [B]	Product [AxB]	% Mass retained [C]	Cum % Mass retained	Cum % Mass passing	Factor [D]	Product[CxD]
850	0	10	0	0.00	0.00	100.00		
600	0.8	20	16	0.53	0.53	99.47	1000.00	533
425	6.8	30	204	4.53	5.06	94.94	500.00	2264
300	39.3	40	1572	26.17	31.23	68.77	355.00	9289
212	47.1	50	2355	31.36	62.58	37.42	250.00	7840
150	46	70	3220	30.63	93.21	6.79	180.00	5513
106	6.3	100	630	4.19	97.40	2.60	125.00	524
75	3.7	140	518	2.46	99.87	0.13	90.00	222
53	0.1	200	20	0.07	99.93	0.07	63.00	4
PAN	0.1	300	30	0.07	100.00	0.00	45.00	3
	150.20		8565	4059.46				26190
Initial Mass (g)	145.2							
Losses (%)	-3.44%							

* AFS **57.02**
 AFS Required
 * Fines < 106µm **2.60 %**
 * Avg grain size **262 µm**
 Analytical Method used



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