



RAND YORK
MINERALS

Official Certificate of Analysis

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Benmore 2010 South
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BATCH SPECIFICATION SHEET

RANDYORKSA.COM



FOUNDRY CHROMITE SAND AFS 55-60 – BA55

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
CR2O3 (%)	46.7
SiO2 (%)	0.52
FeO (%)	25.74
Cr :Fe Ratio	1.58
CaO (%)	0.2
Al2O3 (%)	14.87
MgO	10.1
AFS	57.45
Moisture	0.0005
Turbidity	162 NTU
Turbidity	54 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	0.1	10	1	0.07	0.07	99.93		
600	5.4	20	108	3.60	3.66	96.34	1000.00	3598
425	21.3	30	639	14.19	17.85	82.15	500.00	7095
300	42	40	1680	27.98	45.84	54.16	355.00	9933
212	34.6	50	1730	23.05	68.89	31.11	250.00	5763
150	29.5	70	2065	19.65	88.54	11.46	180.00	3538
106	13.4	100	1340	8.93	97.47	2.53	125.00	1116
75	0.5	140	70	0.33	97.80	2.20	90.00	30
53	0	200	0	0.00	97.80	2.20	63.00	0
PAN	3.3	300	990	2.20	100.00	0.00	45.00	99
	150.10		8623	30020.00				31172
Initial Mass (g)	145.2							
Losses (%)	-3.37%							

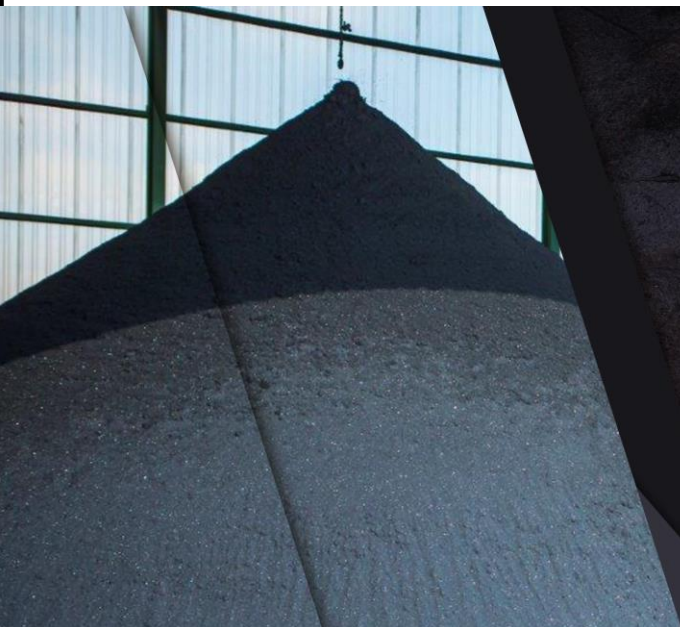
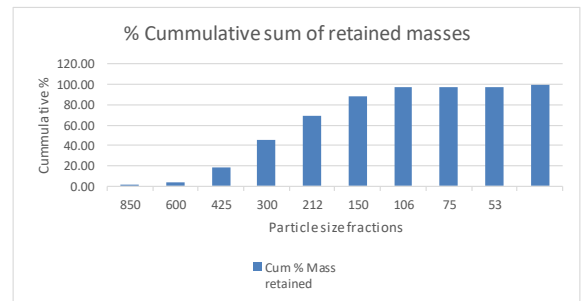
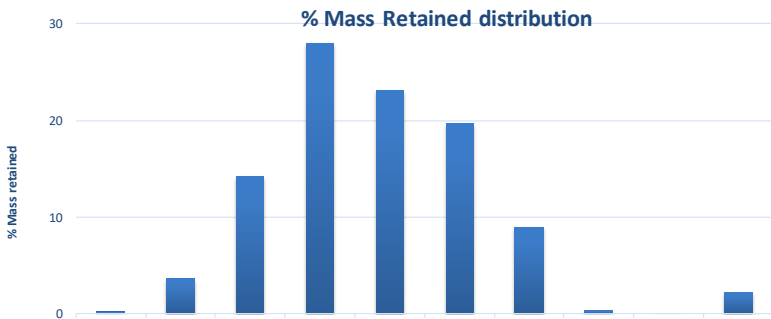
* AFS **57.45**

AFS Required

* Fines < 106µm **2.53 %**

* Avg grain size **312 µm**

Analytical Method used



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