



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 40-45 – BA40

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

ANALYSIS ON DRY BASIS

ANALYSIS/DETERMINATION	Typical VALUE
CR2O3 (%)	46.42
SiO2 (%)	0.7
FeO (%)	25.9
Cr :Fe Ratio	1.58
CaO (%)	0.11
Al2O3 (%)	14.83
MgO	10.13
AFS	43.62
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	2	10	20	1.54	1.54	98.46		
600	2.9	20	58	2.23	3.77	96.23	1000.00	2232
425	18.5	30	555	14.24	18.01	81.99	500.00	7121
300	65.2	40	2608	50.19	68.21	31.79	355.00	17818
212	28.3	50	1415	21.79	89.99	10.01	250.00	5446
150	10.2	70	714	7.85	97.84	2.16	180.00	1413
106	2.4	100	240	1.85	99.69	0.31	125.00	231
75	0.4	140	56	0.31	100.00	0.00	90.00	28
53	0	200	0	0.00	100.00	0.00	63.00	0
PAN	0	300	0	0.00	100.00	0.00	45.00	0
	129.90		5666	32475.00				34290

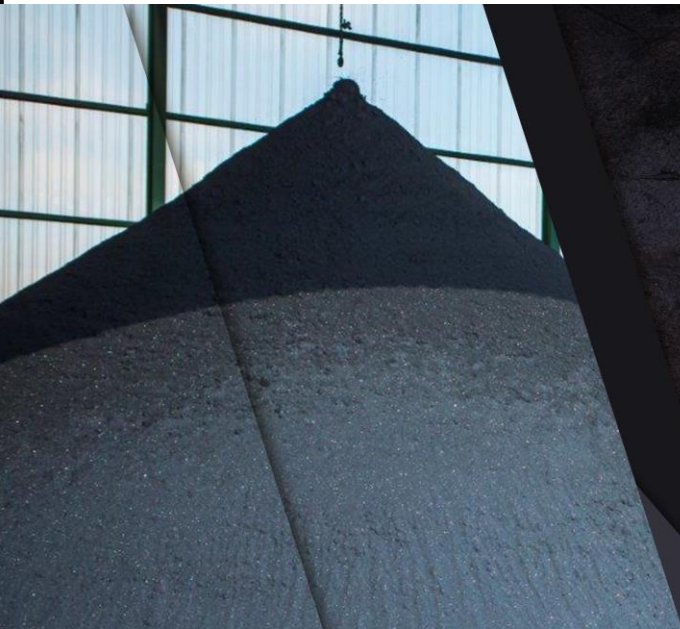
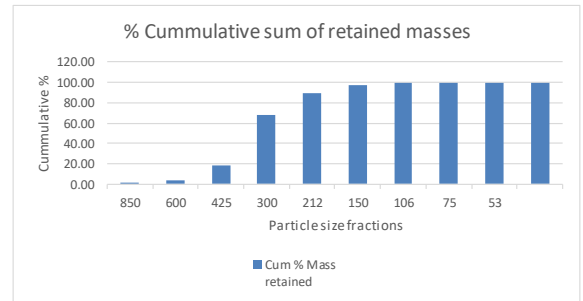
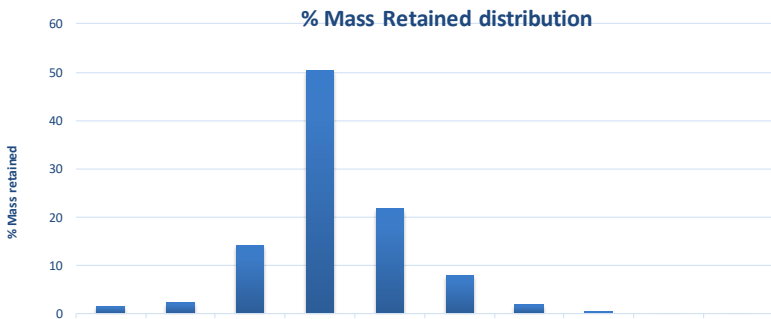
* AFS **43.62**

AFS Required

* Fines < 106µm **0.31 %**

* Avg grain size **343 µm**

Analytical Method used



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