



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 – T40

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 (%)	45.6
SiO2 (%)	0.574
FeO (%)	28.6
Cr :Fe Ratio	1.4
CaO (%)	0.2
Al2O3 (%)	14.8
MgO	8.1
AFS	41.86
Moisture	0.0005
Turbidity	362 NTU
Turbidity	120.67 ppm
pH	8.19
pH 3	5.9
pH 4	2.2
pH 5	1.6
LOI	1.1

*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	1.8	10	18	1.20	1.20	98.80		
600	9.8	20	196	6.54	7.74	92.26	1000.00	6538
425	26.4	30	792	17.61	25.35	74.65	500.00	8806
300	64.5	40	2580	43.03	68.38	31.62	355.00	15275
212	32.5	50	1625	21.68	90.06	9.94	250.00	5420
150	14.2	70	994	9.47	99.53	0.47	180.00	1705
106	0.7	100	70	0.47	100.00	0.00	125.00	58
75	0	140	0	0.00	100.00	0.00	90.00	0
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
	149.90		6275	#DIV/0!				37803
Initial Mass (g)	145.2							
Losses (%)	-3.24%							

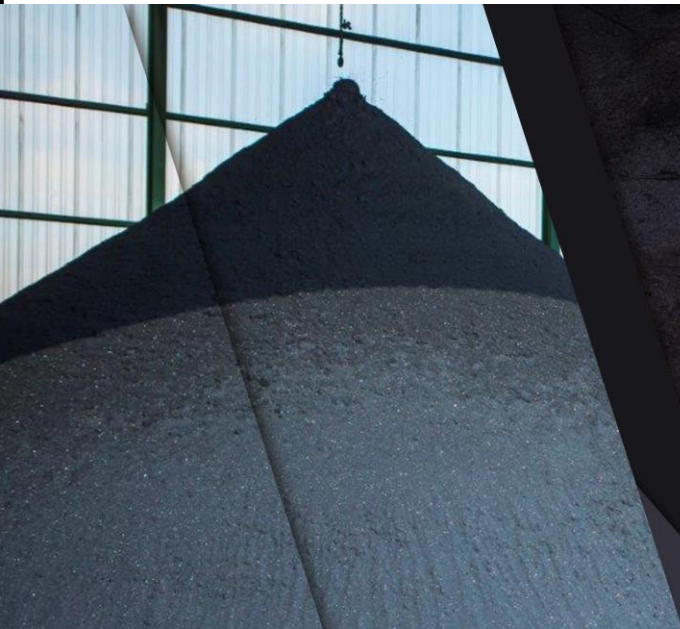
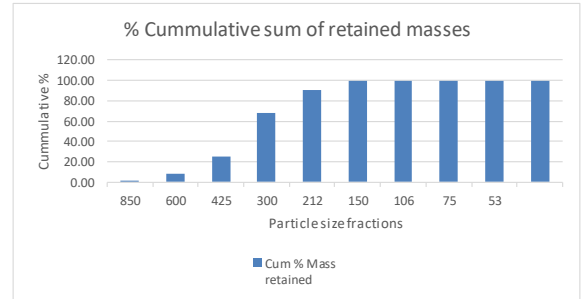
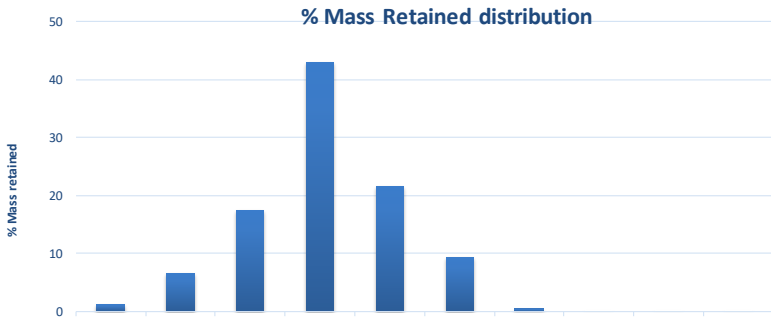
* AFS **41.86**

AFS Required

* Fines < 106µm **0.00 %**

* Avg grain size **378 µm**

Analytical Method used



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