



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 45-50 – BA45

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

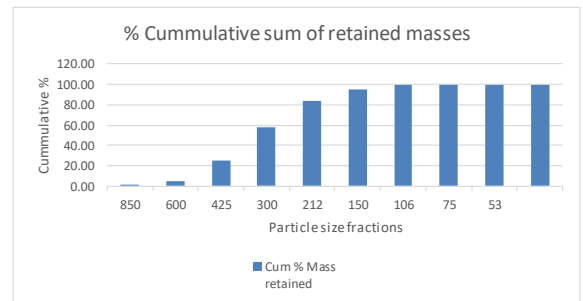
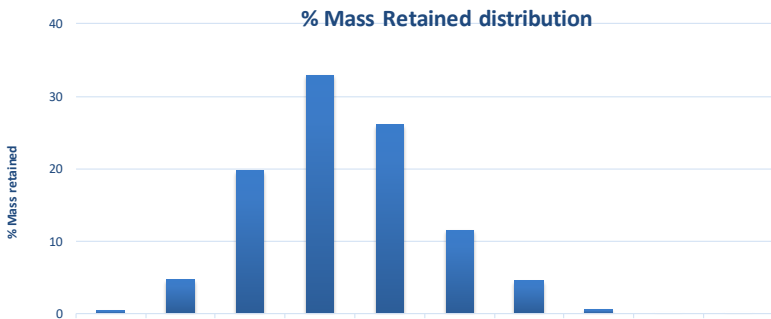
ANALYSIS ON DRY BASIS

ANALYSIS/DETERMINATION	Typical VALUE
CR2O3 (%)	46.45
SiO2 (%)	0.78
FeO (%)	25.73
Cr :Fe Ratio	1.59
CaO (%)	0.09
Al2O3 (%)	14.55
MgO	10.53
AFS	46.26
Moisture	0.0005
Turbidity	187 NTU
Turbidity	62.33 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

Sieve size (µm)	AFS SPECIAL						Factor [D]	Product[CxD]
	Mass (g) retained [A]	Factor [B]	Product [AxB]	% Mass retained [C]	Cum % Mass retained	Cum % Mass passing		
850	0.5	10	5	0.33	0.33	99.67		
600	6.9	20	138	4.60	4.93	95.07	1000.00	4600
425	29.5	30	885	19.67	24.60	75.40	500.00	9833
300	49.3	40	1972	32.87	57.47	42.53	355.00	11668
212	39.2	50	1960	26.13	83.60	16.40	250.00	6533
150	17.1	70	1197	11.40	95.00	5.00	180.00	2052
106	6.7	100	670	4.47	99.47	0.53	125.00	558
75	0.8	140	112	0.53	100.00	0.00	90.00	48
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
	150.00		6939	18750.00				35293

* AFS **46.26**
 AFS Required
 * Fines < 106µm **0.53 %**
 * Avg grain size **353 µm**
 Analytical Method used



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