



**RAND YORK**  
MINERALS

Official Certificate of Analysis

Reg No. 1985/004951/07

Vat No. 4400137867

Tel: +27 (11) 463 9000

Fax +27 (11) 463 7002

Email: randyork@mweb.co.za

Benmore 2010 South  
Africa

PO Box 650755

BATCH SPECIFICATION SHEET

[RANDYORKSA.COM](http://RANDYORKSA.COM)



## FOUNDRY CHROMITE SAND AFS 50-55 – BA50

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

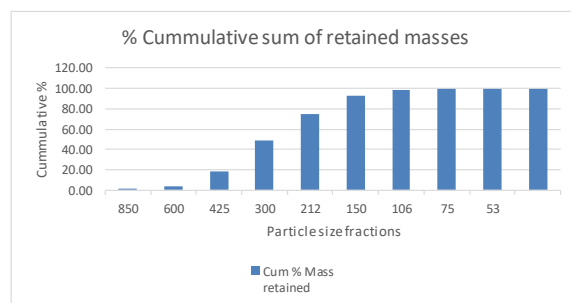
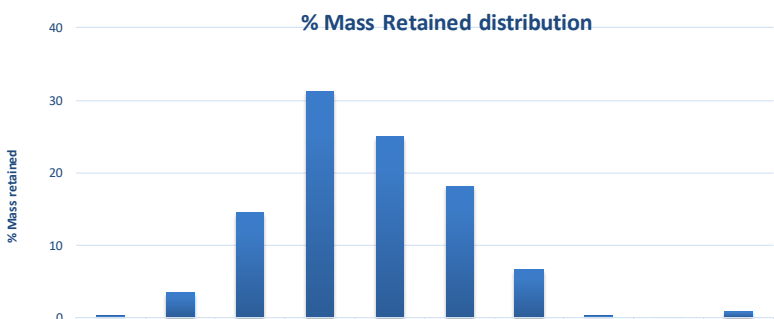
### ANALYSIS ON DRY BASIS

ANALYSIS/DETERMINATION	Typical VALUE
CR2O3 (%)	46.24
SiO2 (%)	0.6
FeO (%)	25.74
Cr :Fe Ratio	1.58
CaO (%)	0.2
Al2O3 (%)	14.87
MgO	10.1
AFS	52.05
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	0.2	10	2	0.13	0.13	99.87		
600	5	20	100	3.33	3.47	96.53	1000.00	3333
425	21.8	30	654	14.53	18.00	82.00	500.00	7267
300	46.9	40	1876	31.27	49.27	50.73	355.00	11100
212	37.5	50	1875	25.00	74.27	25.73	250.00	6250
150	27.2	70	1904	18.13	92.40	7.60	180.00	3264
106	9.8	100	980	6.53	98.93	1.07	125.00	817
75	0.4	140	56	0.27	99.20	0.80	90.00	24
53	0	200	0	0.00	99.20	0.80	63.00	0
PAN	1.2	300	360	0.80	100.00	0.00	45.00	36
	150.00		7807	37500.00				32090
Initial Mass (g)	145.2							
Losses (%)	-3.31%							

**\* AFS** **52.05**  
**AFS Required**  
**\* Fines < 106µm** **1.07 %**  
**\* Avg grain size** **321 µm**  
**Analytical Method used**



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