



**RAND YORK**  
MINERALS

Official Certificate of Analysis

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BATCH SPECIFICATION SHEET – PH-21-04-01

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

## FOUNDRY CHROMITE SAND AFS 45-50 – PH45

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

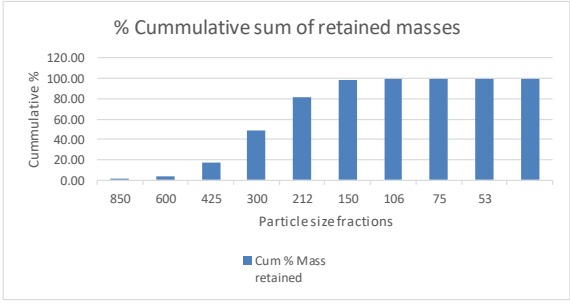
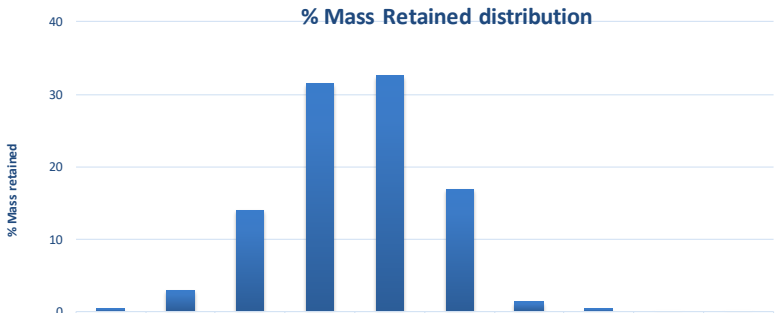
### ANALYSIS ON DRY BASIS

ANALYSIS/DETERMINATION	Typical VALUE
CR2O3 (%)	47.57
SiO2 (%)	0.79
FeO (%)	24.68
Cr :Fe Ratio	1.70
CaO (%)	0.08
Al2O3 (%)	14.28
MgO	9.53
AFS	47.35
Moisture	0.0005
Turbidity	174 NTU
Turbidity	58.00 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	0.6	10	6	0.40	0.40	99.60		
600	4.5	20	90	3.00	3.40	96.60	1000.00	3000
425	21	30	630	14.00	17.40	82.60	500.00	7000
300	47.2	40	1888	31.47	48.87	51.13	355.00	11171
212	48.8	50	2440	32.53	81.40	18.60	250.00	8133
150	25.4	70	1778	16.93	98.33	1.67	180.00	3048
106	2	100	200	1.33	99.67	0.33	125.00	167
75	0.5	140	70	0.33	100.00	0.00	90.00	30
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		7102	30000.00				32549
Initial Mass (g)	145.2							
Losses (%)	-3.31%							

\* AFS **47.35**  
 AFS Required  
 \* Fines < 106µm **0.33 %**  
 \* Avg grain size **325 µm**  
 Analytical Method used



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