



**RAND YORK**  
MINERALS

Official Certificate of Analysis

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BATCH SPECIFICATION SHEET – PI45

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



## FOUNDRY CHROMITE SAND AFS 45-50 – PI45

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 (%)	49.77
SiO2 (%)	0.84
FeO (%)	23.2
Cr :Fe Ratio	1.89
CaO (%)	0.13
Al2O3 (%)	14.46
MgO	9.19
AFS	47.64
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

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	0.53	10	5	0.53	0.53	99.47		
600	5.29	20	106	5.29	5.82	94.18	1000.00	5289
425	17.6	30	528	17.60	23.42	76.58	500.00	8799
300	31.38	40	1255	31.38	54.79	45.21	355.00	11139
212	24.78	50	1239	24.78	79.57	20.43	250.00	6194
150	14.94	70	1046	14.94	94.51	5.49	180.00	2689
106	4.66	100	466	4.66	99.17	0.83	125.00	582
75	0.78	140	109	0.78	99.95	0.05	90.00	70
53	0.05	200	10	0.05	100.00	0.00	63.00	3
PAN	0	300	0	0.00	100.00	0.00	45.00	0
	100.01		4764	12821.79				34766
Initial Mass (g)	145.2							
Losses (%)	31.12%							

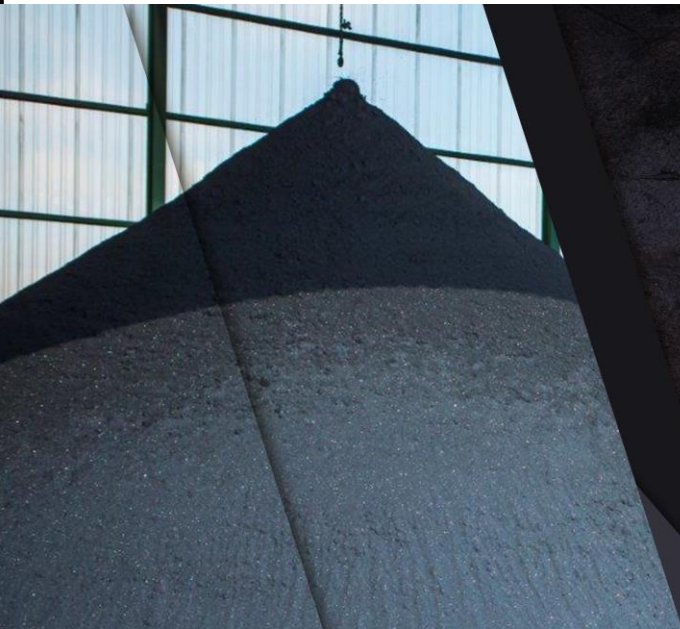
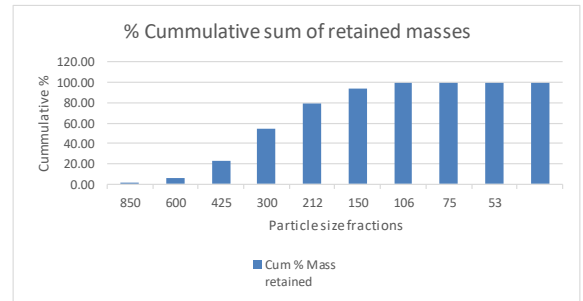
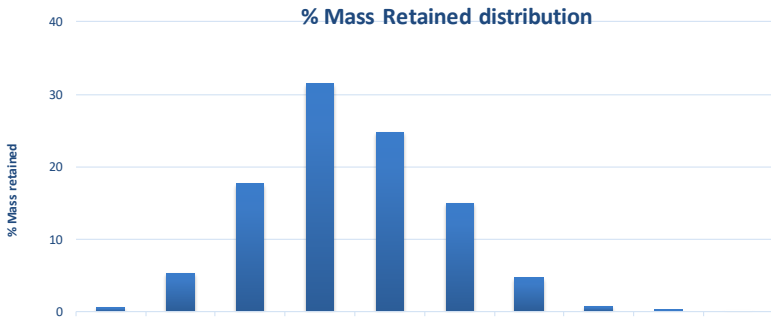
\* AFS **47.64**

AFS Required

\* Fines < 106µm **0.83 %**

\* Avg grain size **348 µm**

Analytical Method used



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