



**RAND YORK**  
MINERALS

Official Certificate of Analysis

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PO Box 650755

BATCH SPECIFICATION SHEET

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



## FOUNDRIY CHROMITE SAND AFS 40-45 – DW40

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 (%)	46.2
SiO2 (%)	0.62
FeO (%)	27.46
Cr :Fe Ratio	1.58
CaO (%)	0.2
Al2O3 (%)	14.78
MgO	9.02
AFS	44.09
Moisture	0.0005
Turbidity	214.26 NTU
Turbidity	89.84 ppm
pH	7.28
pH 3	5.2
pH 4	4.5
pH 5	3.8
LOI	0.16

\*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	0.5	10	5	0.33	0.33	99.67		
600	3.3	20	66	2.20	2.53	97.47	1000.00	2200
425	23.6	30	708	15.73	18.27	81.73	500.00	7867
300	62.1	40	2484	41.40	59.67	40.33	355.00	14697
212	46.2	50	2310	30.80	90.47	9.53	250.00	7700
150	13.1	70	917	8.73	99.20	0.80	180.00	1572
106	1.1	100	110	0.73	99.93	0.07	125.00	92
75	0.1	140	14	0.07	100.00	0.00	90.00	6
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		6614	150000.00				34133
Initial Mass (g)	145.2							
Losses (%)	-3.31%							

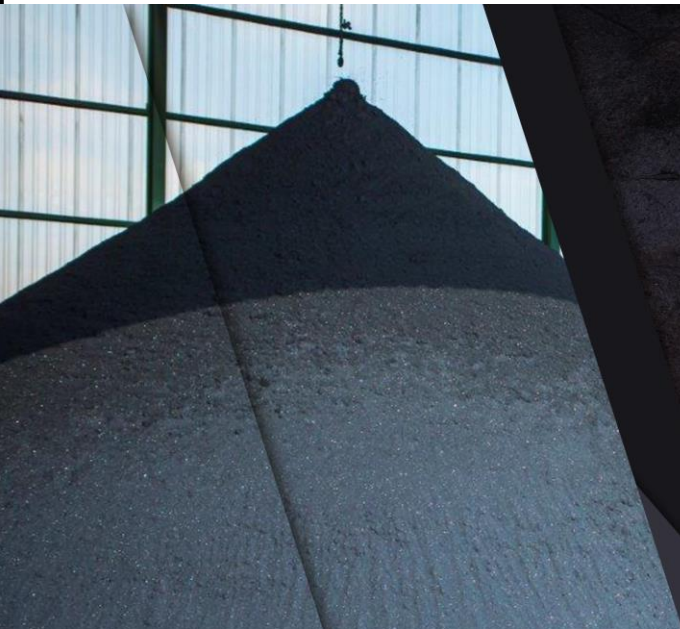
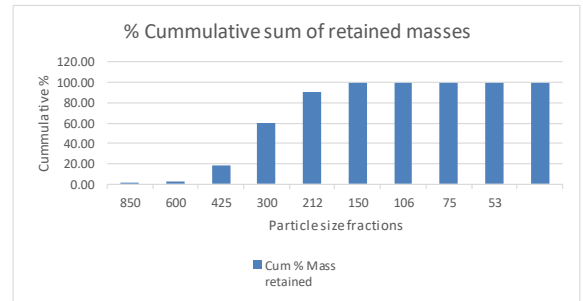
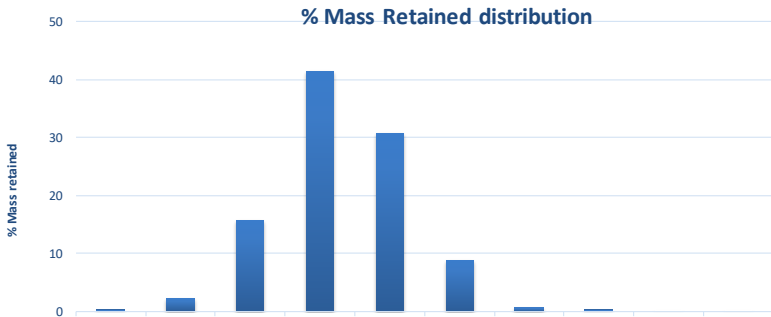
\* AFS **44.09**

AFS Required

\* Fines < 106µm **0.07 %**

\* Avg grain size **341 µm**

Analytical Method used



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