



**RAND YORK**  
MINERALS

Official Certificate of Analysis

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BATCH SPECIFICATION SHEET  
60005305

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



## FOUNDRY CHROMITE SAND AFS 45-50 – DW45

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

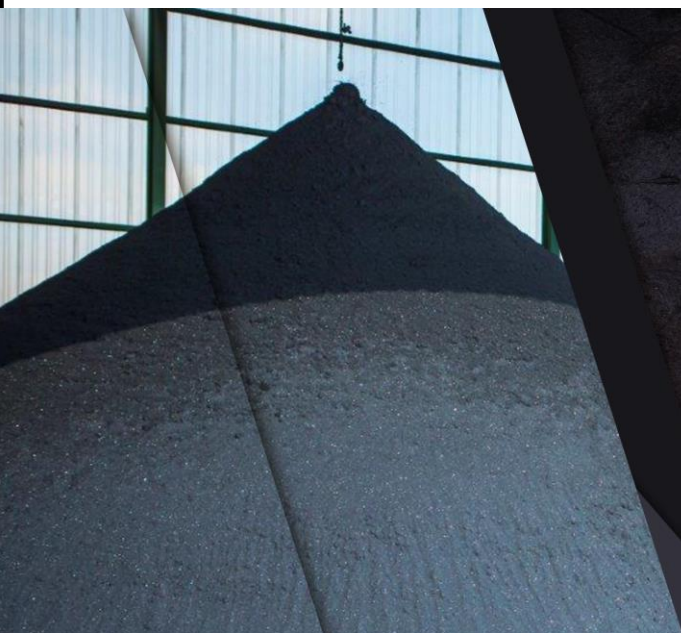
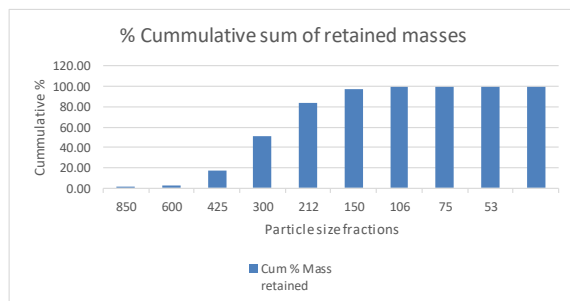
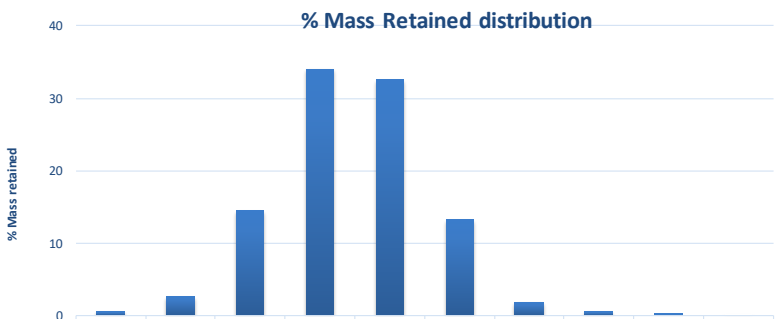
### ANALYSIS ON DRY BASIS

ANALYSIS/DETERMINATION	Typical VALUE
CR <sub>2</sub> O <sub>3</sub> (%)	46.83
SiO <sub>2</sub> (%)	0.66
FeO (%)	26.56
Cr :Fe Ratio	1.55
CaO (%)	0.12
Al <sub>2</sub> O <sub>3</sub> (%)	14.37
MgO	9.5
AFS	46.92
Moisture	0.0005
Turbidity	152 NTU
Turbidity	50.67 PPM
pH	7.18
pH 3	2.16
pH 4	1.81
pH 5	1.56
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	0.8	10	8	0.53	0.53	99.47		
600	3.9	20	78	2.60	3.14	96.86	1000.00	2602
425	21.8	30	654	14.54	17.68	82.32	500.00	7272
300	50.9	40	2036	33.96	51.63	48.37	355.00	12054
212	48.9	50	2445	32.62	84.26	15.74	250.00	8155
150	19.8	70	1386	13.21	97.46	2.54	180.00	2378
106	2.8	100	280	1.87	99.33	0.67	125.00	233
75	0.9	140	126	0.60	99.93	0.07	90.00	54
53	0.1	200	20	0.07	100.00	0.00	63.00	4
PAN	0	300	0	0.00	100.00	0.00	45.00	0
	149.90		7033	16655.56				32752
Initial Mass (g)	145.2							
Losses (%)	-3.24%							

\* AFS **46.92**  
 AFS Required  
 \* Fines < 106µm **0.67 %**  
 \* Avg grain size **328 µm**  
 Analytical Method used



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