



RAND YORK
MINERALS

Official Certificate of Analysis

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BATCH SPECIFICATION SHEET

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
- 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 (%) | 46.3 |
| SiO2 (%) | 0.47 |
| FeO (%) | 27.07 |
| Cr :Fe Ratio | 1.53 |
| CaO (%) | 0.19 |
| Al2O3 (%) | 14.92 |
| MgO | 9.27 |
| AFS | 45.65 |
| Moisture | 0.0005 |
| Turbidity | 245 |
| Turbidity | 81.87 |
| 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 | 1.8 | 10 | 18 | 1.20 | 1.20 | 98.80 | | |
| 600 | 7.2 | 20 | 144 | 4.80 | 6.00 | 94.00 | 1000.00 | 4800 |
| 425 | 22.9 | 30 | 687 | 15.27 | 21.27 | 78.73 | 500.00 | 7633 |
| 300 | 58.9 | 40 | 2356 | 39.27 | 60.53 | 39.47 | 355.00 | 13940 |
| 212 | 38.8 | 50 | 1940 | 25.87 | 86.40 | 13.60 | 250.00 | 6467 |
| 150 | 13.9 | 70 | 973 | 9.27 | 95.67 | 4.33 | 180.00 | 1668 |
| 106 | 4.8 | 100 | 480 | 3.20 | 98.87 | 1.13 | 125.00 | 400 |
| 75 | 1.5 | 140 | 210 | 1.00 | 99.87 | 0.13 | 90.00 | 90 |
| 53 | 0.2 | 200 | 40 | 0.13 | 100.00 | 0.00 | 63.00 | 8 |
| PAN | 0 | 300 | 0 | 0.00 | 100.00 | 0.00 | 45.00 | 0 |
| | 150.00 | | 6848 | 10000.00 | | | | 35006 |
| Initial Mass (g) | 145.2 | | | | | | | |
| Losses (%) | -3.31% | | | | | | | |

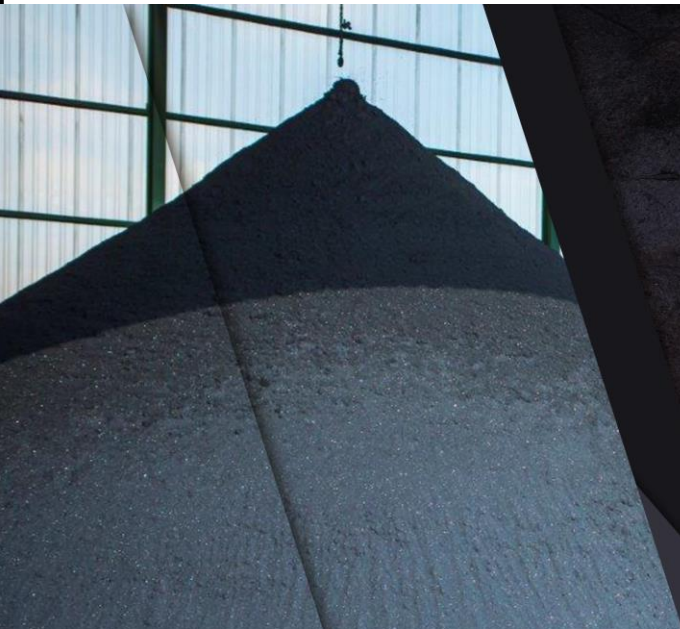
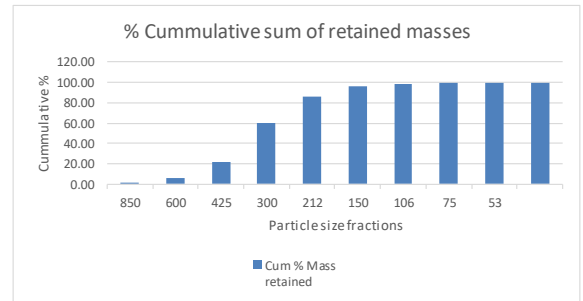
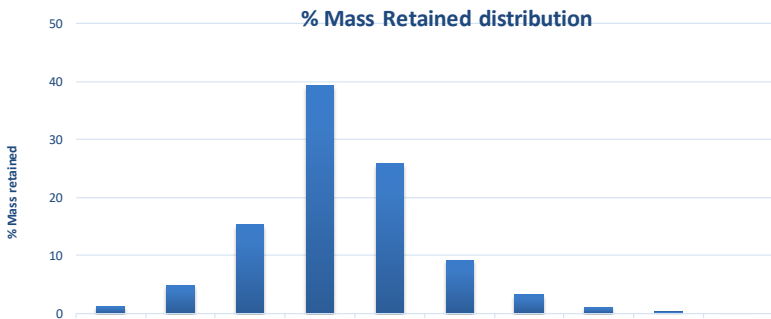
* AFS **45.65**

AFS Required

* Fines < 106µm **1.13 %**

* Avg grain size **350 µm**

Analytical Method used



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