



RAND YORK
MINERALS

Official Certificate of Analysis

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BATCH SPECIFICATION SHEET

RANDYORKSA.COM



FOUNDRY CHROMITE SAND AFS 35-42 – BA35

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

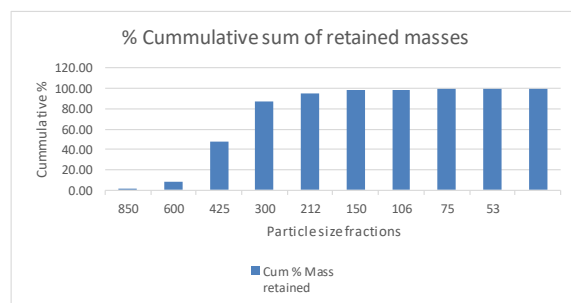
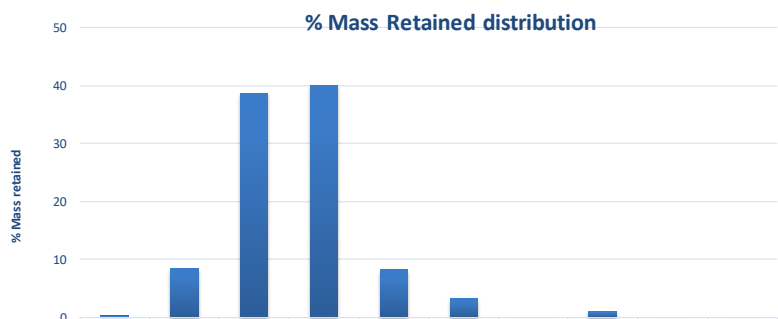
ANALYSIS ON DRY BASIS

| ANALYSIS/DETERMINATION | Typical VALUE |
|------------------------|---------------|
| CR2O3 (%) | 46.7 |
| SiO2 (%) | 0.52 |
| FeO (%) | 25.74 |
| Cr :Fe Ratio | 1.58 |
| CaO (%) | 0.2 |
| Al2O3 (%) | 14.87 |
| MgO | 10.1 |
| AFS | 37.28 |
| Moisture | 0.0005 |
| Turbidity | 162 NTU |
| Turbidity | 54 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 | 0.5 | 10 | 5 | 0.33 | 0.33 | 99.67 | | |
| 600 | 12.5 | 20 | 250 | 8.33 | 8.67 | 91.33 | 1000.00 | 8333 |
| 425 | 58.2 | 30 | 1746 | 38.80 | 47.47 | 52.53 | 500.00 | 19400 |
| 300 | 60 | 40 | 2400 | 40.00 | 87.47 | 12.53 | 355.00 | 14200 |
| 212 | 12.2 | 50 | 610 | 8.13 | 95.60 | 4.40 | 250.00 | 2033 |
| 150 | 4.9 | 70 | 343 | 3.27 | 98.87 | 1.13 | 180.00 | 588 |
| 106 | 0 | 100 | 0 | 0.00 | 98.87 | 1.13 | 125.00 | 0 |
| 75 | 1.7 | 140 | 238 | 1.13 | 100.00 | 0.00 | 90.00 | 102 |
| 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 | | 5592 | 8823.53 | | | | 44657 |
| Initial Mass (g) | 145.2 | | | | | | | |
| Losses (%) | -3.31% | | | | | | | |

*** AFS** **37.28**
AFS Required
*** Fines < 106µm** **1.13 %**
*** Avg grain size** **447 µm**
Analytical Method used



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