

Alpha Star®

PRODUCT DATA

Description:

Alpha Star is a homogeneous calcined high alumina aggregate. Specially selected high purity ores are custom processed and calcined to obtain a dense, volume stable aggregate with low apparent porosity. The combination of lower impurities and unique processing results in a consistent high quality aggregate.

Applications:

Alpha Star is an ideal aggregate to resist abrasion and hot metal erosion in blast furnace troughs and ladles. Its consistent physical and chemical properties make it ideally suited for low cement, ultra low cement castable and plastic refractory applications.

| Chemical Analysis (%): | Typical | Specification |
|--------------------------------|----------------|----------------------|
| Al ₂ O ₃ | 90.3 | 89.0 (min.) |
| SiO ₂ | 3.9 | -- |
| Fe ₂ O ₃ | 1.40 | 2.2 (max.) |
| TiO ₂ | 4.0 | 4.4 (max.) |
| CaO | 0.12 | -- |
| MgO | 0.13 | -- |
| Na ₂ O | 0.03 | -- |
| K ₂ O | 0.23 | 0.6 (max. alkalis) |

Physical Properties:

| | | |
|---------------------|------|-------------|
| Bulk Density (g/cc) | 3.50 | 3.40 (min.) |
| % Apparent Porosity | 2.70 | -- |
| % Moisture | 0.10 | 0.50 (max.) |

Packaging:

Available in 100 lb. Paper bags or supersacks.

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901 East Eighth Avenue • King of Prussia, Pennsylvania 19406
USA • (610) 768-8800

Fax: (610) 337-8122 • www.ceminerals.com • inquire@ceminerals.com



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Sizing Specifications Available from Newell, WV.

| USS Sieve | 0.265 6.70mm | 4m 4.75mm | 6m 3.35mm | 8m 2.36mm | 12m 1.70mm | 16m 1.18mm | 20m 850 µm | 30m 600 µm | 40m 425 µm | 50m 300 µm | 60m 250 µm | 70m 212 µm | 100m 150 µm | 140m 106 µm | 200m 75 µm | 325m 45 µm | PAN* |
|----------------|-----------------|--------------|--------------|--------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|---------------|---------------|--------|
| Grade | | | | | | | | | | | | | | | | | |
| 3 x 6 | 0-5 | 43-57 | 33-46 | 3-10 | | | | | | | | | | | | | 0-3 |
| 4X8 | | 0-4 | | 70-86 | | | | | | | | | | | | | 15-25 |
| 6 x 16 | | | 0-5 | 32-44 | 32-44 | 14-24 | | | | | | | | | | | 0-5 |
| 16 x 70 | | | | | | 4-14 | | 43-55 | | 23-35 | | 6-15 | | | | | 0-5 |
| 16F | | | | | | 2-8 | 18-30 | 14-26 | 8-20 | | | 13-25 | 0-8 | | | 3-15 | 0-10 |
| 100F | | | | | | | | | | | | 0-5 | 5-20 | 10-20 | 10-20 | | 50-70 |
| 200F | | | | | | | | | | | Tr | | | | 10-30 | | 70-90 |
| 325F | | | | | | | | | | | | Tr | Tr | Tr | | 0-10 | 90-100 |

*PAN designates the percentage of material passing the last reported screen for each size

To Order:

C-E Minerals Processing, Inc.
 State Route #2
 Newell, WV 26050
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 Fax: (304) 387-2205

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