

SPINEL 25

PRODUCT DATA

Description:

Spinel 25 is a fused alumina rich spinel aggregate containing typically 25 percent magnesium oxide. Alumina and magnesia in required proportions are mixed thoroughly and then melted under controlled conditions to form spinel that is slightly alumina rich. Spinel 25 is available in a number of refractory sizes from Andersonville, Georgia.

Applications:

Spinel 25 is primarily used in conjunction with pure alumina systems to improve hot metal /slag, erosion/corrosion resistance and thermal shock resistance.

Chemical Analysis (%):

| | Typical |
|--------------------------------|-----------------|
| Al ₂ O ₃ | 74.3 (72.0 min) |
| SiO ₂ | 0.25 |
| Fe ₂ O ₃ | -- |
| TiO ₂ | -- |
| CaO | 0.28 |
| MgO | 25.0 (23.0 min) |
| Na ₂ O | 0.17 |
| K ₂ O | -- |

Physical Properties:

| | |
|----------------------|------|
| Bulk Density (g/cc) | 3.30 |
| Apparent Porosity, % | 7.50 |

Phases Present:

| | |
|--------|---------|
| Major: | Spinel |
| Minor: | Alumina |

Sizing Specifications (% Retained)

| USS Sieve | 0.265" | 4 | 6 | 8 | 12 | 16 | 20 | 30 | 40 | 50 | 60 | 70 | 100 | 200 | 325 | PAN* |
|-----------|--------|---------|---------|---------|--------|---------|---------|--------|----------|---------|---------|--------|--------|-------|-------|--------|
| | 6.7 mm | 4.75 mm | 3.35 mm | 2.36 mm | 1.7 mm | 1.18 mm | 0.85 mm | 0.6 mm | 0.425 mm | 0.30 mm | 0.25 mm | 212 μm | 150 μm | 75 μm | 45 μm | |
| Grade | | | | | | | | | | | | | | | | |
| 3 x 6 | 0-2 | 34-49 | 28-42 | 8-21 | | | | | | | | | | | | 2-14 |
| 6 x 14 | | | 0-2 | 30-44 | 27-42 | 13-25 | 2-10 | | | | | | | | | 0-6 |
| 14M | | | | | | 0-2 | 17-29 | 13-25 | 10-22 | | | 14-26 | | | | 15-27 |
| 25M | | | | | | | | 0-2 | | 33-45 | | 13-25 | 5-17 | 7-19 | | 11-23 |
| 200M | | | | | | | | | | | TR | | | 15-25 | | 75-85 |
| 325M | | | | | | | | | | | | | TR | | 0-10 | 90-100 |

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

To Order:

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