

SEMCOA 47EX

DESCRIPTION

SEMCOA 47EX is a calcined raw material mullite mined from ores in the southern United States for the refractory industry. The product is manufactured by Minerals Manufacturing Corporation and distributed by Washington Mills Electro Minerals.

APPLICATIONS

SEMCOA 47EX has very low alkaline impurities which creates superior performance qualities and is used where hot strength, resistance to spalling, and low thermal conductivity are important factors.

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CHEMICAL ANALYSIS

| | |
|--------------------------------|-----------------|
| Al ₂ O ₃ | 47.0(46.0 min.) |
| SiO ₂ | 47.2 |
| Fe ₂ O ₃ | 1.3 (Max 1.5) |
| TiO ₂ | 2.7 |
| P ₂ O ₅ | 0.09 |
| CaO | 0.05 |
| MgO | 0.02 |
| Na ₂ O | 0.07 |
| K ₂ O | 0.07 |

PHYSICAL PROPERTIES

| | |
|-------------------|--------------------------|
| Bulk Density | (g/cc)- 2.58 (2.55 min.) |
| PCE | 35-36 |
| Apparent Porosity | 3-6% |

AVAILABLE SIZING:

Kiln Run, -6 Mesh, -4+8 Mesh, -3 Mesh, -8 Mesh, -8+20 Mesh, -4 Mesh, -3+8 Mesh, -20 Mesh, -100 Mesh, -200 Mesh

| US Sieve | SIZE | | | | | | | | | | | % RETAINED | | | | | | | | | | |
|----------|-------|-------|------|-------|------|------|-------|-------|-------|-------|-------|------------|-------|------|-------|------|------|-------|-------|-------|-------|-------|
| | 0.265 | 4 | 6 | 8 | 12 | 15 | 20 | 40 | 100 | 200 | Pan | 0.265 | 4 | 6 | 8 | 12 | 15 | 20 | 40 | 100 | 200 | Pan |
| mm | 6.70 | 4.75 | 3.35 | 2.36 | 1.70 | 1.18 | 0.850 | 0.425 | 0.150 | 0.075 | Pan | 6.70 | 4.75 | 3.35 | 2.36 | 1.70 | 1.18 | 0.850 | 0.425 | 0.150 | 0.075 | Pan |
| 3x0 | 2 | 20 | - | 35 | - | - | 25 | - | - | - | 18 | 2 | 20 | - | 35 | - | - | 25 | - | - | - | 18 |
| | 3-5 | 15-25 | - | 27-43 | - | - | 17-33 | - | - | - | 10-26 | 3-5 | 15-25 | - | 27-43 | - | - | 17-33 | - | - | - | 10-26 |
| 4x0 | 0 | 2 | - | 35 | - | - | 40 | - | - | - | 23 | 0 | 2 | - | 35 | - | - | 40 | - | - | - | 23 |
| | | 0-5 | - | 27-43 | - | - | 32-48 | - | - | - | 15-31 | | 0-5 | - | 27-43 | - | - | 32-48 | - | - | - | 15-31 |
| 8x0 | - | - | 0 | 5 | - | - | 45 | 15 | - | - | 35 | - | - | 0 | 2-8 | - | - | 37-53 | 8-22 | - | - | 35 |
| | | | | | | | | | | | 27-43 | | | | | | | | | | | |
| 3x4 | 2 | 62 | - | - | - | - | - | - | - | - | 36 | 2 | 62 | - | - | - | - | - | - | - | - | 36 |
| | 0-4 | 54-70 | - | - | - | - | - | - | - | - | 28-44 | 0-4 | 54-70 | - | - | - | - | - | - | - | - | 28-44 |
| 3x8 | 2 | 20 | - | 61.5 | - | - | - | - | - | - | 16.5 | 2 | 20 | - | 53-70 | - | - | - | - | - | - | 16.5 |
| | 0-4 | 15-25 | - | 53-70 | - | - | - | - | - | - | 10-23 | 0-4 | 15-25 | - | 53-70 | - | - | - | - | - | - | 10-23 |
| 4x8 | 0 | 2 | - | 78 | - | - | - | - | - | - | 20 | 0 | 2 | - | 70-86 | - | - | - | - | - | - | 20 |
| | | 0-4 | - | 70-86 | - | - | - | - | - | - | 15-25 | | 0-4 | - | 70-86 | - | - | - | - | - | - | 15-25 |
| 8x20 | - | - | 0 | 2.5 | - | - | 80 | - | - | - | 17.5 | - | - | 0 | 2.5 | - | - | 70-90 | - | - | - | 17.5 |
| | | | | | | | | | | | 10-25 | | | | | | | | | | | 10-25 |
| 20x0 | - | - | - | - | - | - | 2.5 | 32.5 | so | - | 15 | - | - | - | - | - | 2.5 | 32.5 | so | - | 15 | |
| | | | | | | | | | | | 5-25 | | | | | | | | | | | 5-25 |
| 100x0 | - | - | - | - | - | - | - | - | - | - | 60 | - | - | - | - | - | - | - | - | - | 40 | 60 |
| | | | | | | | | | | | 52-68 | | | | | | | | | | 32-48 | 52-68 |
| 200x0 | - | - | - | - | - | - | - | - | - | - | 75 | - | - | - | - | - | - | - | - | - | 25 | 75 |
| | | | | | | | | | | | 65-85 | | | | | | | | | | 15-35 | 65-85 |

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