



## Apex 7

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**DESCRIPTION:** Ladle and furnace brick, resin bonded, made with predominately fused grain. Very high erosion and slag resistance. Good oxidation resistance due to high-purity flake graphite. Antioxidants can be added.

**USES INCLUDE:** Electric furnace hotspots.  
Electric furnace sidewalls.  
Ladles.  
BOF working linings.

### CHEMICAL ANALYSIS: (TYPICAL CHEMICAL ANALYSIS)

(Approximate %)

|                                |       |
|--------------------------------|-------|
| MgO                            | 97.0% |
| CaO                            | 1.0%  |
| SiO <sub>2</sub>               | 0.9%  |
| Fe <sub>2</sub> O <sub>3</sub> | 0.6%  |
| Al <sub>2</sub> O <sub>3</sub> | 0.4%  |

### TYPICAL AS RECEIVED PROPERTIES:

|   |              |
|---|--------------|
| Antioxidants:   | Can be added |
| Apparent Porosity (%):  | 2.5          |
| Bulk Density, original g/cm <sup>3</sup> (lb/ft <sup>3</sup> ): | 3.00 (187)   |
| Carbon (%)  | 5.0 - 20.0   |
| Crushing Strength psi (MPa):                                    | 6000 (41)    |

The values reported above are average values derived from production data encompassing many different sizes and shapes. Actual data will vary to a small degree naturally and as a function of size and shape. This form is not intended to be used for purposes of specification; it is informational only.

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