

GRAFTech

International



GRADED™ CARBON BLOCKS & SHAPES

Description: Large extruded, anthracite coal based carbon blocks for blast furnace hearth bottoms, tuyere blocks, Skimmer Blocks and submerged arc furnace bottoms and sidewall blocks. Features good thermal conductivity, low thermal expansion, abrasion resistance and good volume stability.

| ESSENTIAL PROPERTIES | Typical Average | Min./Max. Individual Sample | Comparable ASTM Test Procedure |
|--|-----------------|-----------------------------|--------------------------------|
| Bulk Density (Loose) (gm/cc) | 1.55 | 1.51 | ASTM C559 |
| Crushing Strength (kPa) (AG) | 18500 | 12400 | ASTM C133 |
| Ash (percent) | 7 | 9 | ASTM C561 |
| INFORMATIONAL PROPERTIES | | | |
| Modulus of Rupture (kPa) (WG) | 4100 | | ASTM C651 |
| Porosity (percent) | 20 | | ASTM C20 |
| Reheat (at 1000°C) (Essentially Volume Stable) | ±0.1% | | ASTM C113 |
| Thermal Conductivity (W/m ² K) (WG) @ 20°C | 10 | | ASTM C714 |



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TECHNICAL INFORMATION
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