



**HEADQUARTERS**

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**Grade PF Block Specifications**

**Description:** Grade PF, is primarily the material of choice for cost effective parts for less demanding applications.

**Typical applications:**

- Furnace parts
- Aluminum runout tables
- Fused refractory molds.

**Standard Sizes:** 26 x 26 x 72”

| Properties                                  | Test Standard | English                      |      | Metric            |      |
|---|---------------|------------------------------|------|-------------------|------|
|   |               | UOM                          |      | UOM               |      |
| Bulk Density                                | ASTM C-838    | lbs/ft <sup>3</sup>          | 103  | g/cm <sup>3</sup> | 1.65 |
| Particle Size                               | ASTM C-559    | inches                       | 0.08 | mm                | 2    |
| Electrical Resistivity                      | ASTM C-830    | Ωinch                        | 4    | μΩm               | 10   |
| Flexural Strength                           | ASTM C-651    | psi                          | 1850 | MPa               | 13   |
| Compressive Strength                        | ASTM C-695    | psi                          | 3950 | MPa               | 27   |
| Tensile Strength                            | ASTM C-565    | psi                          | 1900 | MPa               | 13   |
| Porosity                                    | ASTM C-611    | %                            | 23   | %                 | 23   |
| Coefficient of Thermal Expansion (to 100°C) | ASTM E-228    | 10-6/°F                      | 1.2  | 10-6/°C           | 2.5  |
| Thermal Conductivity                        | ASTM C-201    | Btu-ft/hr-ft <sup>2</sup> °F | 82   | W/mK              | 140  |
| Ash Content                                 | ASTM C-561    | %                            | .3   | %                 | .3   |
| Hardness                                    |               | Rockwell “R”                 | 75   |                   | 75   |

The above data should be regarded as general information, not guaranteed specification limits.