



The Refractory Specialists
 A division of P-G Industries, Inc.
 AN EMPLOYEE OWNED COMPANY

TECHNICAL DATA

PG 30 IFB

| | | | |
|--|--|---|---|
| ASTM Classification | | 30 | |
| Temperature Use Limit, °F (°C) (Normal oxidizing atmosphere) | | 3000 | (1649) |
| Density, Avg. | lb/ft ³ (kg/m ³) | 66 | (1041) |
| ASTM C 134 | lb/BEq (kg/str.) | 3.8 | (1.7) |
| Modulus of Rupture | | | |
| ASTM C 133 | lb/in ² (Mpa) <i>kg/cm²</i> | 230 | (1.7) 17.6 |
| Cold Crush Strength | | | |
| ASTM C 133 | lb/in ² (Mpa) <i>kg/cm²</i> | 420 | (3.0) 31 |
| Permanent Linear Change, % | | | |
| ASTM C 210 | 24 hrs @ soaking temp: °F (°C) | | |
| | 2950 (1621) | -0.7 | |
| Reversible Linear Thermal Expansion % | | | |
| | at °F (°C) | 2000 (1093) | 0.65 |
| Hot Load Strength | | | |
| ASTM C 16 | % deformation | | |
| | 10 psi load for 1 1/2 hours: °F (°C) | 2400 (1316) | 0.3 |
| Thermal Conductivity, ASTM C 182 | | | |
| | Mean Temperature, °F (°C) | Btu-in/ft ² , hr, F° (W/mk) | |
| | 500 (260) | 2.9 | (0.40) |
| | 1000 (538) | 3.0 | (0.42) |
| | 1500 (816) | 3.2 | (0.45) |
| | 2000 (1093) | 3.4 | (0.84) |
| Chemical Analysis, % | | | |
| | Alumina - Al ₂ O ₃ | 68.0 | |
| | Silica - SiO ₂ | 30.0 | |
| | Ferric Oxide - Fe ₂ O ₃ | 0.3 | |
| | Titanium Oxide - TiO ₂ | 1.2 | |
| | Calcium Oxide - CaO | 0.2 | |
| | Magnesia - MgO | 0.1 | |
| | Alkalies - as Na ₂ O + K ₂ O | 0.2 | |

For product information or sales, please contact your sales representative or Customer Service at: **Phone (256) 237-3373, Fax (256) 237-3793 or (800) 446-8769.**

The physical and chemical properties of Pryor Giggey's Insulating Fire Brick represent values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Results should not be used for specification purposes.

