



TECHNICAL DATA

ProCAST® 80

VIBRatable/ULTRA LOW CEMENT CASTABLE

| | |
|--|------------|
| Recommended Service Temperature Limit | 3200°F |
| Water Required for Mixing :External Vibration..... | 4.0 - 5.0% |
| :Internal Vibration..... | 5.0 - 6.0% |
| Material Required Per Ft ³ :Vibrated, External or Internal Vibration..... | 176-182 lb |
| Packaging..... | 55 lb bag |

| TEMPERATURE (°F) | BULK DENSITY (lb/ft ³) | LINEAR CHANGE (%) | MODULUS OF RUPTURE (lb/in ²) | COLD CRUSH STRENGTH (lb/in ²) | APPARENT POROSITY (%) | K-FACTOR ASTM C-1113 Btu·in/hr·ft ² °F | ABRASION LOSS (cm ³) |
|---------------------|--|-------------------------|--|---|-----------------------------|---|--|
| 220 | 174-184 | -0.4 to 0.2 | 900-1900 | 3300-10300 | 9 - 13 | ---- | 4 - 7 |
| 1500 | 182-188 | -0.4 to 0.2 | 1100-2100 | 5800-11800 | 13 - 17 | 20.7 | 4 - 6 |
| 2000 | 181-187 | -0.4 to 0.2 | 2200-3200 | 11800-17800 | 13 - 17* | 21.3 | 3 - 5 |
| 2550 | 174-180 | 1.0 to 1.5 | 1100-2100 | 11600-17600 | 16 - 20 | 20.8 | ---- |
| 2910 | 179-185 | 0.1 to 0.7 | 1200-2200 | 11400-17400 | 10 - 14 | ---- | ---- |

CHEMICAL ANALYSIS: (Ignited)

| | |
|--------------------------------------|-------|
| Al ₂ O ₃ | 84.0% |
| SiO ₂ | 10.2 |
| Fe ₂ O ₃ | 1.2 |
| TiO ₂ | 3.0 |
| CaO | 1.1 |
| MgO | 0.3 |
| Alkalies | 0.2 |

HOT MODULUS OF RUPTURE: (lb/in²)

| | |
|----------------|-----------|
| At 1500°F..... | 3500-5000 |
| At 2000°F..... | 3900-5500 |

THERMAL SHOCK RESISTANCE

5 Cycles Ambient to 2200°F

| | |
|--------------------|--------------------------|
| <u>Prefired to</u> | <u>Strength Retained</u> |
| 2200°F..... | 78% |

THERMAL CONDUCTIVITY: ASTM C-1113

| | |
|------------------|---|
| Mean Temperature | K-Factor (BTU·in/hr·ft ² °F) |
| 1500°F | 20.5 |
| 2000°F | 21.5 |
| 2550°F | 20.2 |

The properties shown on this data sheet represent typical average results generated using standard ASTM test methods (unless otherwise noted) conducted under controlled condition (using standard rectangular shapes), and should not be considered to be guaranteed specifications. Properties are subject to normal manufacturing statistical standard deviation ranges, and Resco Products, Inc. reserves the right to modify the properties and specifications at any time without prior notice.

RESCO PRODUCTS disclaims any express or implied warranties based on this sheet.

02/05/08 is the date that this data sheet was updated. Check with your RESCO sales representative or RESCO website to determine you have the current sheet.

02/05/08 is the date that this data sheet was updated. Check with your RESCO sales representative or RESCO website to determine you have the current sheet