



Technical Data

EZ³ FINE 90 BFA FINE GRAINED/SHOTCRETABLE CASTABLE

Recommended Service Temperature Limit	2500°F
Recommended lining thickness.....	4 " (100mm)
Water Required for Mixing :Pumpable and Shotcretable.....	6.0-7.0%*
:Hand packed.....	6.0-7.0**
Material Required Per Ft ³ :Shotcreted (includes 5% rebound).....	179-181
:Hand packed.....	172-177
Packaging.....	55 lb bag

*Shotcreting (1.5" line) applications should be performed at very thick consistencies.

** A liquid thickener is required for hand packing

Bulk Density (pcf)

After 1500°F (815°C) 176 (2816 kg/m³)

Cold Crushing Strength (psi)

After 1500°F (815°C) 13,000 to 17,000 (910-1190 kg/cm²)

Permanent Linear Change (%)

230°F (110°C) to 1500°F (815°C) -0.2 to -0.6

THERMAL CONDUCTIVITY: ASTM C-1113

Erosion Loss using ASTM C-704 Method

After 1500°F (815°C) 5-8cc (shotcreted)

Mean Temperature (°F)	K-Factor (BTU·in/hr·ft ² °F) <u>Shotcreted</u>	W/mK
220.....	28.9	4.19
1500.....	18.8	2.73
2000.....	19.4	2.82

CHEMICAL ANALYSIS: (Ignited)

Al ₂ O ₃	88.1
SiO ₂	6.9
Fe ₂ O ₃	0.1
TiO ₂	2.2
CaO	2.1
MgO	trace
Alkalies	trace
Other	0.6

HOT MODULUS OF RUPTURE: (lb/in²)

Temp °F	<u>Shotcreted</u>
1500.....	5000-7000
2000.....	4100-6100
2550.....	500 - 800

Brand Code 1498, Shelf Life 12 Months

The properties shown on this data sheet represent typical average results generated using standard ASTM test methods (unless otherwise noted) conducted under controlled conditions (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.

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