



TECHNICAL DATA

PERMACON® 95 ULTRA-LOW CEMENT CASTABLE

Recommended Service Temperature Limit..... 3300 °F
 Water Required for Mixing..... 3-4%
 Material Required Per Ft³..... 183-189 lb
 Packaging..... 55 lb bag

TEMPERATURE (°F)	BULK DENSITY (lb/ft³)	LINEAR CHANGE (%)	MODULUS OF RUPTURE (lb/in²)	COLD CRUSH STRENGTH (lb/in²)	APPARENT POROSITY (%)
220	182-192	-0.4 to 0.3	500-1500	1200- 6400	9 - 13
1500	189-195	-0.8 to -0.2	2100-3100	6100-12100	11 - 15
2000	189-195	-0.5 to 0.1	4600-5600	20600-26600	11 - 15
2550	189-195	-0.6 to 0.0	3800-4800	19500-25500	10 - 14
2910	189-195	-0.6 to 0.0	4300-5300	18700-24700	10 - 14

CHEMICAL ANALYSIS: (Ignited)

Al ₂ O ₃ 94.1%
SiO ₂ 4.9
Fe ₂ O ₃ 0.2
TiO ₂ 0.2
CaO 0.3
MgO 0.1
Alkalies 0.2

THERMAL CONDUCTIVITY ASTM C-1113

Mean Temperature (°F)	K-Factor (BTU· in/hr· ft² °F)
1000.....	24.4
2000.....	24.2
3000.....	21.9

HOT MODULUS OF RUPTURE: (lb/in²)

At 2550 °F	2800-3100
At 2700 °F	900-1200

THERMAL SHOCK RESISTANCE: 5 Cycles-Ambient to 2200° F

Prefire Temperature (°F)	Strength Retained %
220.....	100.0
600.....	82.4
2800.....	91.0
3000.....	86.0

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.

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