



TECHNICAL DATA

PUROCRETE®

LOW-IRON HIGH ALUMINA CASTABLE

Recommended Service Temperature Limit.....	3200°F
Water Required for Mixing.....	8½-11%
Material Required Per Ft³.....	140-145 lb
Packaging.....	55 lb bag

TEMPERATURE (°F)	BULK DENSITY (lb/ft³)	LINEAR CHANGE (%)	MODULUS OF RUPTURE (lb/in²)	COLD CRUSH STRENGTH (lb/in²)
220	143-152	-0.1 to -0.5	600- 700	2100- 3000
1500	140-145	-0.2 to -0.5	400- 600	2300- 2800
2250	140-147	-0.2 to -0.5	500-1000	2200- 3600
2550	135-137	1.0 to 1.4	1100-1600	3500- 4500
3000	134-139	1.4 to 1.9	2100-3400	5600-11000

CHEMICAL ANALYSIS: (Ignited)

Al ₂ O ₃	66.3%
SiO ₂	27.8
Fe ₂ O ₃	1.0
TiO ₂	1.6
CaO	2.8
MgO	0.2
Alkalies	0.3

THERMAL CONDUCTIVITY: ASTM C-1113

Mean Temperature (°F)	K-Factor (BTU·in/hr·ft² °F) <u>Pour Cast</u>
1500.....	10.9
2000.....	11.7
2500.....	14.7

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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