



TECHNICAL DATA

PUROLITE®-30

LOW-IRON INSULATING CASTABLE

Recommended Service Temperature Limit	3000°F
Water Required for Predampening	6-8%
Water Required for Casting	23-27%
Material Required Per Ft ³ for Gunning (does not include rebound).....	90-97 lb
Material Required Per Ft ³ for casting.....	88-93 lb
Packaging.....	50.lb bag

CAST

TEMPERATURE (°F)	BULK DENSITY lb/ft ³	LINEAR CHANGE (%)	MODULUS OF RUPTURE (lb/in ²)	COLD CRUSH STRENGTH (lb/in ²)
220	89-96	-0.1 to -0.5	200- 600	500- 700
1500	84-91	-0.4 to -0.7	200- 250	400- 600
2000	85-92	-0.4 to -0.8	250- 350	400- 600
2250	84-91	-0.2 to -0.6	600- 700	800- 900
2550	85-92	-0.6 to 0.8	900-1000	1300-1400

GUNNED

220	89-96	-0.1 to -0.5	200- 600	500- 700
1500	84-91	-0.4 to -0.7	200- 250	400- 600
2000	85-92	-0.4 to -0.8	250- 350	400- 600
2250	84-91	-0.2 to -0.6	600- 700	800- 900
2550	85-92	-0.6 to 0.8	900-1000	1300-1400
2900	80-85	0.4 to 1.2	1000-1400	1400-2400

CHEMICAL ANALYSIS: (Ignited)

Al ₂ O ₃	55.8%
SiO ₂	37.1
Fe ₂ O ₃	0.8
TiO ₂	0.8
CaO	4.2
MgO	0.2
Alkalies	1.1

THERMAL CONDUCTIVITY: ASTM C-1113

Temperature (°F)	K-Factor (BTU-in/hr-ft ² °F)	
	CAST	GUNNED
1000.....	4.1	3.6
1500.....	4.2	3.8
2000.....	4.8	4.5
2500.....	7.0	6.7

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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