



TECHNICAL DATA

SAKONITE® HIGH STRENGTH REFRACTORY CONCRETE

Recommended Service Temperature Limit.....	2200°F
Water Required for Mixing.....	13-16%
Material Required Per Ft ³	121-127 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)
220	122-129	-0.1 to -0.5	1000-1500	4000-6000
600	121-127	-0.1 to 0.6	700-1100	3000-4000
1000	121-127	-0.1 to -0.7	500- 900	2000-3000
1500	121-127	-0.1 to 0.7	200- 600	1000-2000
2000	120-126	-0.3 to -0.9	200- 400	800-1800

CHEMICAL ANALYSIS: (Ignited)

Al ₂ O ₃	.....	33.7%
SiO ₂	.....	45.9
Fe ₂ O ₃	.....	1.1
TiO ₂	.....	1.7
CaO	.....	16.0
MgO	.....	0.6
Alkalies	.....	1.0

THERMAL CONDUCTIVITY: ASTM C-1113

Mean Temperature (°F)	K-Factor (BTU·in/hr·ft ² °F) <u>Pour Cast</u>
1000.....	7.0
1500.....	6.0
2000.....	6.1

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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