



TECHNICAL DATA

KRICON® 34

HIGH PURITY ALUMINA LOW CEMENT CASTABLE

Recommended Service Temperature Limit	3400°F
Water Required for Mixing	
:External Vibration.....	4.4 - 4.9%
:Internal Vibration.....	4.7 - 5.2%
Material Required Per Ft ³	184-188 lb

TEMPERATURE (°F)	BULK DENSITY (lb/ft ³)	LINEAR CHANGE (%)	MODULUS OF RUPTURE (lb/in ²)	COLD CRUSH STRENGTH (lb/in ²)	APPARENT POROSITY (%)
220	180-194	-0.1 to 0.0	1200-1500	2800- 9500	-----
1500	190-194	-0.1 to 0.0	1500-1800	6000- 9000	14 - 16
2000	190-194	-0.1 to 0.0	2000-2700	8000-11000	15 - 18
2550	190-194	-0.1 to 0.0	4600-6700	15000-23000	14 - 17
2910	191-195	-0.2 to -0.1	4200-6300	16000-23000	13 - 16

CHEMICAL ANALYSIS: (Ignited)

Al ₂ O ₃	.....	98.7%
SiO ₂	.....	0.1
Fe ₂ O ₃	.....	0.1
TiO ₂	.....	Tr
CaO	.....	1.0
MgO	.....	Tr
Alkalies	.....	0.1

THERMAL CONDUCTIVITY: ASTM C-1113

Mean Temperature (°F)	K-Factor (BTU·in/hr·ft ² °F) <u>Pour Cast</u>
1000.....	27.2
1500.....	22.9
2000.....	23.0
2500.....	21.0

HOT MODULUS OF RUPTURE: (lb/in²)

At 2500°F.....	1900-2200
At 2700°F.....	1400-1700

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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