



# TECHNICAL DATA

## HI-STRENGTH™25 CAST-VIBRATED DATA

Recommended Service Temperature Limit..... 2500°F  
 Water Required For Mixing..... 11-14%  
 Material Required Per Ft³..... 124-130 lb

TEMPERATURE (°F)	BULK DENSITY (lb/ft³)	LINEAR CHANGE (%)	MODULUS OF RUPTURE (lb/in²)	COLD CRUSH STRENGTH (lb/in²)
220	129-139	-0.2 to +0.2	800-1300	6000-12000
1500	124-130	-0.2 to +0.2	300- 700	1600-2200
2000	123-129	-0.4 to 0.0	300- 700	1500-2100
2250	125-131	-0.9 to -0.4	700-1100	1900-2500
2400	124-130	-0.9 to -0.3	1200-2000	3200-6000

### CHEMICAL ANALYSIS: (Ignited)

Al <sub>2</sub> O <sub>3</sub>	.....	43.5%
SiO <sub>2</sub>	.....	40.8
Fe <sub>2</sub> O <sub>3</sub>	.....	2.5
TiO <sub>2</sub>	.....	2.0
CaO	.....	9.5
MgO	.....	0.6
Alkalies	.....	1.1

### THERMAL CONDUCTIVITY: ASTM C-1113

Mean Temperature (°F)	K-Factor (BTU-in/hr-ft² °F) <u>Pour Cast</u>
1000.....	6.5
1500.....	7.1
2000.....	8.0

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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