



# TECHNICAL DATA

## HI-STRENGTH™28-LI GENERAL PURPOSE LOW IRON CASTABLE

Recommended Service Temperature Limit.....	2800°F
Water Required For Mixing.....	9-12%
Material Required Per Ft³.....	125-134 lb
Packaging.....	55 lb bag

TEMPERATURE (°F)	BULK DENSITY (lb/ft³)	LINEAR CHANGE (%)	MODULUS OF RUPTURE (lb/in²)	COLD CRUSH STRENGTH (lb/in²)
220	131-140	-0.2 to +0.2	800-1400	4000- 6500
1500	125-134	-0.2 to +0.2	400- 700	2000- 4000
2000	125-134	-0.2 to +0.2	400- 700	1500- 2500
2250	124-133	-1.0 to -0.5	500-1000	2000- 4000
2550	123-132	0.0 to +1.0	1300-2600	3000- 6000
2732	117-126	+1.0 to +2.0	2000-3000	8000-12000

### CHEMICAL ANALYSIS: (Ignited)

Al <sub>2</sub> O <sub>3</sub>	.....	45.6%
SiO <sub>2</sub>	.....	44.2
Fe <sub>2</sub> O <sub>3</sub>	.....	1.3
TiO <sub>2</sub>	.....	2.1
CaO	.....	5.6
MgO	.....	0.3
Alkalies	.....	0.9

### THERMAL CONDUCTIVITY: ASTM C-1113

Mean Temperature (°F)	K-Factor (BTU-in/hr-ft² °F) <u>Pour Cast</u>
1500.....	8.1
2000.....	8.9
2500.....	9.5

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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