



TECHNICAL DATA

FURNACON™ 95

95% ALUMINA LOW CEMENT CASTABLE FOR ALUMINUM CONTACT

Recommended Service Temperature Limit For	
:Aluminum Non-Wetting.....	2200°F
:All Other Applications.....	3000°F
Water Required for Mixing	
:Vibration.....	4.0 - 5.5%
Material Required Per Ft³.....	182-187 lb
Packaging.....	55 lb bag

TEMPERATURE (°F)	BULK DENSITY (lb/ft³)	LINEAR CHANGE (%)	MODULUS OF RUPTURE (lb/in²)	COLD CRUSH STRENGTH (lb/in²)	APPARENT POROSITY (%)
220	188-193	-0.2 to -0.0	2000-2500	10000-14000	-----
1000	189-194	0.2 to -0.1	3000-3500	13000-17000	7 - 10
1500	189-194	-0.3 to -0.1	4000-4500	15000-19000	36812
2000	188-193	-0.3 to -0.1	4900-5400	11000-15000	36875
2200	189-194	0.2 to -0.0	4900-5400	19000-23000	36875
2550	185-189	-0.2 to 0.2	2500-3000	12000-16000	16 - 19
2910	187-192	-0.6 to -0.2	5000-5600	22000-26000	13 - 16
3000	190-194	-0.9 to -0.5	6900-7400	23000-27000	36844

CHEMICAL ANALYSIS: (Ignited)

Al ₂ O ₃	.....	93.8%
SiO ₂	.....	5%
Fe ₂ O ₃	.....	tr
TiO ₂	.....	tr
CaO	.....	1.1%
MgO	.....	tr
Alkalies	.....	0.1%

THERMAL CONDUCTIVITY: ASTM C-1113

Mean Temperature (°F)	K-Factor (BTU·in/hr·ft² °F) Pour Cast
1000	29.7
1500	27.5
2000	25.8

ALUMINUM CUP TEST

HOT MODULUS OF RUPTURE (lb/in²)	7075 Alloy, 1500°F, 72 Hours
At 1500°F.....	4500-5000
	SILICON PICKUP RATIO
	220°F..... 1.1
	1800°F..... 6.4
	2200°F..... 4.5

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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