



TECHNICAL DATA

FURNACON™ 3000

LOW CEMENT CASTABLE FOR ALUMINUM CONTACT

Recommended Service Temperature Limit For	
:Aluminum Non-Wetting.....	3000°F
:All Other Applications.....	3100°F
Water Required for Mixing	
:External Vibration.....	3½-4%
:Internal Vibration.....	4½-5%
Material Required Per Ft³.....	192-197 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	198-203	-0.1 to 0.0	2100-2550	7500-11000	9 - 11
1500	197-201	-0.1 to 0.0	1750-2150	5500- 9500	12 - 15
2550	188-193	0.6 to 1.2	3000-3500	12000-17000	13 - 16
2732	184-189	1.0 to 1.6	4000-5200	15000-21000	14 - 17
2910	185-189	0.8 to 1.5	3800-4600	12000-16000	18 - 21
3000	185-189	0.8 to 1.5	4200-5000	12000-16000	17 - 20

CHEMICAL ANALYSIS: (Ignited)

Al ₂ O ₃	.....	92.8%
SiO ₂	.....	0.1
Fe ₂ O ₃	.....	Tr
TiO ₂	.....	Tr
CaO	.....	1.1
MgO	.....	Tr
Alkalies	.....	0.1
Other	.....	5.9

THERMAL CONDUCTIVITY: ASTM C-1113

Mean Temperature (°F)	K-Factor (BTU·in/hr·ft² °F) <u>Pour Cast</u>
1000.....	29
1500.....	26
2500.....	25

HOT MODULUS OF RUPTURE (lb/in²)
At 1500°F..... 1500-2000

ALUMINUM CUP TEST
7075 Alloy, 1500°F, 72 Hours
SILICON PICKUP RATIO
220°F..... 1.1
2200°F..... 1.1
2732°F..... 1.0

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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