



Technical Data

FURNA³™ 70

SHOTCRETABLE/SELF FLOW/PUMPABLE/70% ALUMINA LOW CEMENT CASTABLE FOR ALUMINUM CONTACT

Recommended Service Temperature Limit For

	:Aluminum Non-wetting.....	2200°F
Aluminum Furnace Non-metal Contact Applications:.....		2500°F
	:Vibrated, External or Internal Vibration.....	5.0-6.0%
	:Shotcreted	4.0-5.0%
Material Required Per Ft ³	:Self Flow	162-168 lb
	:Shotcreted (includes 5% rebound)	170-176 lb

SELF FLOW/PUMPABLE

TEMPERATURE (°F)	BULK DENSITY (lb/ft ³)	LINEAR CHANGE (%)	MODULUS OF RUPTURE (lb/in ²)	COLD CRUSH STRENGTH (lb/in ²)	APPARENT POROSITY (%)	K-FACTOR ASTM C1113 (Btu.in/hr.ft ² °F)	ABRASION LOSS (cm ³)
220	158-168	-----	1100-2100	3400-7300	8 - 14	21.5	6 - 10
1500	166-170	-0.4 to 0.2	1100-2800	5500-10000	15 - 18	16.3	4 - 8
2000	162-168	-0.6 to 0.0	1200-1600	6000-10000	11 - 19	-----	-----

SHOTCRETED

220	157-161	-----	700-1100	3400-7400	13 - 20	-----	15 - 20
1500	155-161	-0.4 to 0.2	700- 900	3000-7000	18 - 22	-----	12 - 16
2000	151-157	-0.5 to 0.1	500- 700	2600-6500	20 - 22	-----	-----

CHEMICAL ANALYSIS: (Ignited)

Al ₂ O ₃	.....	74.0%
SiO ₂	.....	17.6
Fe ₂ O ₃	.....	0.9
TiO ₂	.....	2.0
CaO	.....	1.2
MgO	.....	0.2
Alkalies	.....	0.2
Other	.....	3.9

THERMAL SHOCK RESISTANCE (5 cycles-Ambient to 2200°F)

Prefired to:	_____	Strength Retained %
1500°F.....		87
2000°F.....		86

HOT MODULUS OF RUPTURE: (lb/in²)

At 1500°..... 3500-4000

ALUMINUM CUP TEST

7075 Alloy, 1500°F, 72 hours - (Shotcreted Sample)	
Silicon pick up.....	0.03%
Si pick up ratio.....	1.48

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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