



Technical Data

FURNA³™ FS

SHOTCRETABLE /SELF FLOW/PUMPABLE FUSED SILICA LOW CEMENT CASTABLE

Recommended Service Temperature Limit	2200°F
Water Required for Mixing :Self Flow	7.8 - 8.8%
:Shotcreted.....	6.8 - 7.8%
:Vibrated, External or Internal Vibration	6.8 - 7.8%
Material Required Per Ft ³ :Self Flow	118 - 122 lb
:Vibration	122 - 126 lb
:Shotcreted (includes 5% rebound).....	124-128

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	116-126	-0.2 to 0.0	1000-1400	1600- 8000	11 - 13	-----	19 - 24
1500	118-122	-0.4 to 0.0	1000-1600	4000-7000	12 - 14	9.8	13 - 18
2000	115-119	-0.6 to -0.2	1200-1600	5000-8000	13 - 15	12.1	-----

SHOTCRETED

220	115-122	-0.2 to 0.0	700-1700	3500-7700	-----	-----	9 - 13
1500	114-120	-0.4 to -0.3	700-1400	2800-5700	14-17	10.5	7 - 11
2000	115-118	-0.4 to 0.3	900-1100	4000-4800	14-17	13.0	-----

CAST-VIBRATED

220	123-127	-0.2 to 0.0	1200-1600	5000- 8000	8 - 10	-----	-----
1500	122-126	-0.4 to 0.0	1200-1600	7000-10000	9 - 11	-----	-----
2000	123-127	-0.5 to 0.0	1200-1600	8500-11500	9 - 11	-----	-----

CHEMICAL ANALYSIS: (Ignited)

Al ₂ O ₃	11.0%
SiO ₂	87.8
Fe ₂ O ₃	Tr
TiO ₂	Tr
CaO	1.1
MgO	Tr
Alkalies	0.1

HOT MODULUS OF RUPTURE: (lb/in²)

At 1500°F..... 2000-2500

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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