



# TECHNICAL DATA

## EZ CAST® 85-AL

### SELF FLOW/PUMPABLE/ALUMINUM RESISTANT/LOW CEMENT CASTABLE

Recommended Service Temperature.....		
	:Aluminum Non-Wetting.....	2200°F
	:All Other Applications.....	2800°F
Water Required for Mixing	:Pumpable .....	4.5 - 5.0%
	:Vibrated, External or Internal Vibration.....	3.0 - 4.5%
Material Required Per Ft3	:Self Flow.....	175-180 lb
	:Vibrated, External or Internal Vibration.....	179-185 lb
Packaging.....		55 lb bag

#### SELF FLOW

TEMPERATURE (°F)	BULK DENSITY (lb/ft³)	LINEAR CHANGE (%)	MODULUS OF RUPTURE (lb/in²)	COLD CRUSH STRENGTH (lb/in²)	APPARENT POROSITY (%)	K-FACTOR ASTM C1113 (Btu-in/hr-ft² °F)	ABRASION LOSS (cm³)
220	180-186	-----	1750-1850	9000-15000	9 - 12	39.1	4 - 6
1500	179-185	-0.2 to 0.0	2500-3500	13000-18000	14-17	23.8	3 - 5
2000	179-185	-0.3 to 0.0	3300-4300	17000-22000	14-17	20.5	-----

#### VIBRATED

220	185-191	-----	1700-2200	8500-13500	9 - 12	-----	3 - 5
1500	181-187	-0.1 to 0.1	3200-3800	14500-18500	12 - 16	-----	3 - 5
2550	177-183	0.1 to 0.5	3900-4400	26900-30500	14 - 17	-----	-----

#### CHEMICAL ANALYSIS: (Ignited)

Al <sub>2</sub> O <sub>3</sub> .....	85.5%
SiO <sub>2</sub> .....	9.8
Fe <sub>2</sub> O <sub>3</sub> .....	0.8
TiO <sub>2</sub> .....	2.2
CaO .....	1.2
MgO .....	0.1
Alkalies .....	0.4

#### HOT MODULUS OF RUPTURE: (lb/in²)

Temp °F	Self Flow
1500	6500-8500
2000	3200-4100
2400	1500-2000
2500	1000-1500
2550	400- 950
2700	350- 600

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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