



# Low Cement Castables

## Cast Data

### VIBROCAST 85ULM

**VIBROCAST 85ULM** is an ultra-low cement, high alumina castable designed to have maximum slag and hot metal resistance for use in LMF ladles and other steel-making applications. This product should be installed by vibration casting methods only.

**Maximum Service Temperature:** 3200°F (1760°C)

**Bulk Density:**

After 220°F (105°C): 174 lbs/ft<sup>3</sup> (2784 kg/m<sup>3</sup>)  
After 1500°F (815°C): 171 lbs/ft<sup>3</sup> (2736 kg/m<sup>3</sup>)

**Cold Crushing Strength:**

After 1500°F (815°C): 6000- 12,000 psi (420-840 kg/cm<sup>2</sup>)

**Modulus of Rupture:**

After 2910°F (1600°C): 2000- 2500 psi (140-175 kg/cm<sup>2</sup>)

**Permanent Linear Change (%):**

After 1500°F (815°C): 0.0 to -0.3  
After 2910°F (1600°C): +0.5 to +2.0

**Thermal Conductivity or "K" Factor:**

Mean Temp.	BTU/ft <sup>2</sup> /Hr/°F/in	W/mK
1000°F (540°C)	12.0	1.73
1500°F (815°C)	11.0	1.59
2000°F (1095°C)	11.0	1.59

**Typical Chemical Analysis (%):**

Al <sub>2</sub> O	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	CaO	Alkalies
80.7	15.0	0.9	2.4	0.6	0.1

**Standard Packaging:** 72-55 lb. bags per pallet. Bulk packaging available

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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