



# Low Cement Castables

## Cast Data

### VIBROCAST FS-6

**VIBROCAST FS-6** is a fused silica-based, low cement castable. VIBROCAST FS-6 offers high strength, very good resistance to abrasion, and low reversible thermal expansion, resulting in a highly thermal shock resistant material. This product should be installed by vibration casting only.

**Maximum Service Temperature:** 2000°F (1095°C)

**Bulk Density:**

After 220°F (105°C): 130 lbs/ft<sup>3</sup> (2080 kg/m<sup>3</sup>)

After 1500°F (815°C): 126 lbs/ft<sup>3</sup> (2016 kg/m<sup>3</sup>)

**Cold Crushing Strength:**

After 1500°F (815°C): 7000-12,000 psi (490-840 kg/cm<sup>2</sup>)

**Modulus of Rupture:**

After 1500°F (815°C): 1300-1700 psi (91-119 kg/cm<sup>2</sup>)

**Permanent Linear Change (%):**

After 1500°F (815°C): 0.0 to -0.3

After 2000°F (1095°C): 0.0 to -0.3

**Erosion Loss using ASTM C-704 Method:**

After 1500°F (815°C): 14 cc (max)  
7-9 cc (typical)

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

Mean Temp.	BTU/ft <sup>2</sup> /Hr/°F/in	W/mK
500°F (260°C)	7.8	1.12
1000°F (540°C)	7.5	1.08
1500°F (815°C)	7.7	1.11

**Typical Chemical Analysis (%):**

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	CaO	Alkalies
20.0	77.5	0.4	0.4	1.6	0.1

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

Data shown are average results of standard ASTM tests unless otherwise noted. Results may vary subject to normal variations in manufacturing, testing and installation procedures in the field. 3/14/06 is the date that this data sheet was updated. Check with your RESCO sales representative or RESCO website to determine you have the current data sheet. MCL