



# Insulating Castables

## Cast Data

### CASTABLE #16

**CASTABLE #16** is an ultra-lightweight refractory concrete with a service limit of 1600°F as a hot face material and 1800°F as a backup insulation. **CASTABLE #16** has a good strength to weight ratio and can replace block insulation for many applications. The most useful property is the very low K-factor.

**Maximum Service Temperature:** 1800°F (982°C)

**Bulk Density:**

After 220°F (105°C) 38 lbs/ft<sup>3</sup> (608 kg/m<sup>3</sup>)  
After 1500°F (815°C) 35 lbs/ft<sup>3</sup> (560 kg/m<sup>3</sup>)

**Cold Crushing Strength:**

After 220°F (105°C) 180-300 psi (13-21 kg/cm<sup>2</sup>)  
After 1500°F (815°C) 70-250 psi ( 5-18 kg/cm<sup>2</sup>)

**Permanent Linear Change (%):**

After 1500°F (815°C) 0.0 to -3.0

**Thermal Conductivity or “K” Factor:**

Mean Temp.	BTU/ft <sup>2</sup> /Hr/°F/in	W/mK
500°F (260°C)	1.10	0.16
1000°F (540°C)	1.30	0.19
1500°F (815°C)	1.60	0.23

**Typical Chemical Analysis (%):**

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	TiO <sub>2</sub>	Alkalies
16.8	55.8	1.4	18.0	5.3	0.7	2.0

**Standard Packaging:** 50-40 lb. bags per pallet

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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