



PRODUCT DATA

Brand Name: **CASTABLE #16**

Description: 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.

Physical properties shown are averages based on standard brick sizes.

ASTM test methods used where applicable

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

Bulk Density (pcf)

After 220°F (105°C)	38	(0.61 g/cm ³)
After 1500°F (815°C)	35	(0.56 g/cm ³)

Cold Crushing Strength (psi)

After 220°F (105°C)	180 - 330	(12.6 - 23.1 kg/cm ²)
After 1500°F (815°C)	70 - 250	(4.9 - 17.5 kg/cm ²)

Permanent Linear Change (%)

After 2950°F (1621°C)	-0.3 to 0.0
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Thermal Conductivity (K Factor)

Mean Temperature	<u>BTU/ft²/hr./°F/inch</u>	<u>W/mK</u>
500°F (260°C)	1.10	0.16
1000°F (537°C)	1.30	0.19
1500°F (815°C)	1.60	0.23

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	16.8
Silica (SiO ₂)	55.8
Iron Oxide (Fe ₂ O ₃)	1.4
Titania (TiO ₂)	0.7
Lime (CaO)	18.0
Magnesia (MgO)	5.3
Alkalis (Na ₂ O+K ₂ O)	2.0

Brand Code: 0153

The properties shown on this data sheet represent typical average results 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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