



PRODUCT DATA

Brand Name: UNICRETE 80 LC SC15

Description: UNICRETE 80 LC SC15 is a low cement, 80% alumina castable with a 15% silicon carbide addition. This castable is installed by vibration cast methods

Physical properties shown are average values of samples taken under controlled conditions
ASTM test methods used where applicable

Maximum Service Temperature: 3100°F (1705°C)

Typical Water Required for Mixing (by weight) :

Casting 5.5 - 6.0%

Casting Data

Bulk Density (pcf)

After 220°F (105°C) 187 (2.99 g/cm³)

Modulus of Rupture (psi)

After 220°F (105°C) 1900 (133 kg/cm²)
After 1500°F (815°C) 1750 (122 kg/cm²)

Permanent Linear Change (%)

After 220°F (105°C) -0.3 to 0.0

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	81.0
Silica (SiO ₂)	0.6
Iron Oxide (Fe ₂ O ₃)	0.1
Titania (TiO ₂)	1.5
Lime (CaO)	1.6
Magnesia (MgO)	0.1
Alkalies (Na ₂ O+K ₂ O)	0.1
Silicon Carbide (SiC)	15.0

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

Brand Code: 3648

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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