



Low Cement Castables

Product Data

EZ Cubed 56SCPC

EZ Cubed 56SCPC is a SiC castable that uses low cement binder technology and can be installed by vibrate cast, pump cast or wet shotcrete methods. Low porosity, excellent abrasion resistance and high heat transfer value make this product an excellent choice for the tube walls in the combustion zones of power generating units by reducing surface slag and alkali build-up.

Maximum Service Temperature: 2700°F (1480°C)

Bulk Density:

| | |
|----------------|--|
| 220°F (105°C) | 164 lb/ft ³ (2624 kg/m ³) |
| 1700°F (927°C) | 162 lb/ft ³ (2592 kg/m ³) |

Cold Crushing Strength:

| | |
|-----------------|---|
| 1700°F (927°C) | 10000-14000 psi (700-980 kg/cm ²) |
| 2000°F (1095°C) | 10000-14000 psi (700-980 kg/cm ²) |
| 2500°F (1370°C) | 10000-14000 psi (700-980 kg/cm ²) |

Modulus of Rupture:

| | |
|-----------------|---|
| 1700°F (927°C) | 2000-3000 psi (140-210 kg/cm ²) |
| 2000°F (1095°C) | 2000-3000 psi (140-210 kg/cm ²) |
| 2500°F (1370°C) | 2000-3000 psi (140-210 kg/cm ²) |

Permanent Linear Change(%):

| | |
|-----------------|--------------|
| 1700°F (927°C) | -0.1 to -0.3 |
| 2000°F (1095°C) | -0.1 to -0.3 |
| 2500°F (1370°C) | +0.1 to +0.4 |

Erosion Loss:

1700°F (927°C) Less than 10 cc
(Typical 5 to 7 cc)

Thermal Conductivity or "K" Factor:

| Mean Temp. | BTU/ft ² /HR/°F/in | W/mK |
|----------------|-------------------------------|------|
| 1000°F (540°C) | 39 | 5.62 |
| 1500°F (815°C) | 39 | 5.62 |

Typical Chemical Analysis(%):

| SiC | Al ₂ O ₃ | SiO ₂ | Fe ₂ O ₃ | TiO ₂ | CaO | Alkalies |
|------|--------------------------------|------------------|--------------------------------|------------------|-----|----------|
| 55.9 | 25.1 | 16.7 | 0.4 | 0.3 | 1.4 | 0.2 |

Standard Packaging: 72-55 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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