

Vibratables

Product Data

VIBROCAST 60SC RSP

VIBROCAST 60SC RSP is a 59% Silicon Carbide, ultra-low cement castable designed for pumpcasting. This product can be pumped using rotor-stator pumps, allowing low volume Shotcrete installations to be carried out using equipment which is readily available and of relatively low cost. Can also be installed using conventional piston pumps. **VIBROCAST 60SC RSP** has excellent strength, alkali and abrasion resistance.

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

Bulk Density:

| | | |
|-------------------------|-------------------------------|----------------------------------|
| Dried to 110°C (220°F) | 2530 - 2630 kg/m ³ | (158 – 164 lbs/ft ³) |
| Fired to 815°C (1500°F) | 2450 - 2550 kg/m ³ | (153 – 159 lbs/ft ³) |

Cold Crushing Strength:

| | | |
|-------------------------|-------------------------------|---------------------|
| Dried to 110°C (220°F) | 550 - 827 kg/cm ² | (8000 – 12000 psi) |
| Fired to 815°C (1500°F) | 827 - 1170 kg/cm ² | (12000 – 17000 psi) |

Modulus of Rupture:

| | | |
|-------------------------|------------------------------|-------------------|
| Dried to 110°C (220°F) | 110 - 165 kg/cm ² | (1600 – 2400 psi) |
| Fired to 815°C (1500°F) | 165 - 230 kg/cm ² | (2390 – 3330 psi) |

Erosion Loss:

| | |
|-------------------------|---|
| Fired to 815°C (1500°F) | Less than 9 cc (Typical loss 5-7 cc) |
|-------------------------|---|

Permanent Linear Change(%):

| | |
|-------------------------|----------------|
| 110°C to 815°C (1500°F) | -0.1 to -0.3 % |
|-------------------------|----------------|

Conductivity or “K” Factor:

| Mean Temp. | W/mK | BTU/ft ² /HR/°F/in |
|-----------------|------|-------------------------------|
| 815°C (1500°F) | 5.9 | 41.0 |
| 927°C (1700°F) | 6.1 | 43.0 |
| 1095°C (2000°F) | 6.7 | 47.0 |

Typical Chemical Analysis(%):

| Al ₂ O ₃ | SiO ₂ | Fe ₂ O ₃ | SiC | CaO | Alkalies |
|--------------------------------|------------------|--------------------------------|------|-----|----------|
| 21.1 | 17.1 | 0.25 | 59.0 | 1.4 | 0.2 |

The properties shown on this data sheet represent typical average results generated using standard ASTM test methods (unless otherwise noted) conducted under controlled conditions 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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