

Insulating Castables

RESCOCAST 3BLI RSP

RESCOCAST 3BLI RSP IS A 2550°F LOW IRON INSULATING MATERIAL DESIGNED FOR INSTALLATION BY PUMPCASTING OR SHOTCRETING. ITS UNIQUE FORMULATION ALLOWS IT TO BE PUMPED BY EITHER LARGE PISTON PUMPS OR SMALL ROTOR-STATOR UNITS THIS GIVES THE CONTRACTOR THE OPTION TO USE THE PRODUCT IN BOTH HIGH AND LOW VOLUME SHOTCRETE INSTALLATIONS

MAXIMUM SERVICE TEMPERATURE 2550°F
IMPERIAL UNITS

| PROPERTY | TEMP | PUMPED DATA | | SHOTCRETED DATA | | UNITS |
|----------------------------|---------------|--------------|---------|-----------------|---------|-------------------------------|
| | | RANGE | TYPICAL | RANGE | TYPICAL | |
| Mixing Water | | 59 - 63 | 61 | 59 - 63 | 61 | % |
| Bulk Density | 220 °F | 47 - 57 | 52 | 62 - 72 | 67 | Lbs/ft ³ |
| | 1500 °F | 42 - 52 | 47 | 54 - 64 | 59 | Lbs/ft ³ |
| | 2550 °F | 40 - 50 | 45 | 53 - 63 | 58 | Lbs/ft ⁴ |
| Cold Crushing Strength | 220 °F | 400 - 600 | 550 | 500 - 700 | 650 | Lbs/in ² |
| | 1500 °F | 300 - 500 | 450 | 400 - 600 | 550 | Lbs/in ² |
| | 2550 °F | 400 - 600 | 550 | 500 - 700 | 650 | Lbs/in ³ |
| Modulus Of Rupture | 1500 °F | 100 - 150 | 125 | 100 - 150 | 125 | Lbs/in ² |
| Permanent Linear Change | 220 - 1500 °F | -0.4 to -0.8 | -0.6 | -0.4 to -0.8 | -0.6 | % |
| | 220 - 2550 °F | +0.4 to +1.0 | +0.8 | +0.4 to +1.0 | +0.8 | % |
| Porosity | 815 °F | 53 - 57 | 55 | 51 - 55 | 53 | % |
| Conductivity or "K" factor | 500 °F | - | 1.10 | - | 1.20 | BTU/ft ² /Hr/°F/in |
| | 1000 °F | - | 1.25 | - | 1.30 | BTU/ft ² /Hr/°F/in |
| | 1500 °F | - | 1.55 | - | 1.60 | BTU/ft ² /Hr/°F/in |

CHEMICAL ANALYSIS

| Al ₂ O ₃ | SiO ₂ | Fe ₂ O ₃ | CaO | MgO | TiO ₂ | Alkalies |
|--------------------------------|------------------|--------------------------------|------|-----|------------------|----------|
| 39.6 | 39.4 | 0.7 | 14.9 | 0.4 | 0.3 | 2.4 |

STANDARD PACKAGING 67-15Kg 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 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. RESCO PRODUCTS disclaims any expressed or implied warranties based on this sheet. 01/08/13 is the date that this data sheet was updated. Check with your RESCO sales representative or RESCO website to determine you have the current sheet

METRIC DATA SHOWN ON PAGE 2

Insulating Castables

RESCOCAST 3BLI RSP

RESCOCAST 3BLI RSP IS A 1400°C LOW IRON INSULATING MATERIAL DESIGNED FOR INSTALLATION BY PUMPCASTING OR SHOTCRETING. ITS UNIQUE FORMULATION ALLOWS IT TO BE PUMPED BY EITHER LARGE PISTON PUMPS OR SMALL ROTOR-STATOR UNITS THIS GIVES THE CONTRACTOR THE OPTION TO USE THE PRODUCT IN BOTH HIGH AND LOW VOLUME SHOTCRETE INSTALLATIONS

MAXIMUM SERVICE TEMPERATURE 1400°C

METRIC UNITS

| PROPERTY | TEMP | PUMPED DATA | | SHOTCRETED DATA | | UNITS |
|----------------------------|---------------|--------------|---------|-----------------|---------|--------------------|
| | | RANGE | TYPICAL | RANGE | TYPICAL | |
| Mixing Water | | 59 - 63 | 61 | 59 - 63 | 61 | % |
| Bulk Density | 110 °C | 750 - 915 | 830 | 995 - 1155 | 1070 | Kg/m ³ |
| | 815 °C | 670 - 830 | 750 | 865 - 1025 | 945 | Kg/m ³ |
| | 1400 °C | 640 - 800 | 720 | 850 - 1010 | 930 | Kg/m ³ |
| Cold Crushing Strength | 110 °C | 28 - 41 | 38 | 34 - 48 | 45 | Kg/cm ² |
| | 815 °C | 21 - 34 | 31 | 28 - 41 | 38 | Kg/cm ² |
| | 1400 °C | 28 - 41 | 38 | 34 - 48 | 45 | Kg/cm ² |
| Modulus Of Rupture | 815 °C | 7 - 10 | 8 | 7 - 10 | 8 | Kg/cm ² |
| Permanent Linear Change | 110 - 815 °C | -0.4 to -0.8 | -0.6 | -0.4 to -0.8 | -0.6 | % |
| | 110 - 1400 °C | +0.4 to +1.0 | +0.8 | +0.4 to +1.0 | +0.8 | % |
| Porosity | 815 °C | 53 - 57 | 55 | 51 - 55 | 53 | % |
| Conductivity or "K" factor | 260 °C | - | 0.16 | - | 0.17 | w/mk |
| | 540 °C | - | 0.18 | - | 0.19 | w/mk |
| | 815 °C | - | 0.22 | - | 0.23 | w/mk |

CHEMICAL ANALYSIS

| Al ₂ O ₃ | SiO ₂ | Fe ₂ O ₃ | CaO | MgO | TiO ₂ | Alkalies |
|--------------------------------|------------------|--------------------------------|------|-----|------------------|----------|
| 39.6 | 39.4 | 0.7 | 14.9 | 0.4 | 0.3 | 2.4 |

STANDARD PACKAGING 67-15Kg bags per pallet