

RESCOLITE 30

RESCOLITE 30 IS AN INSULATING CASTABLE WITH AN OPERATING TEMPERATURE UP TO 1095°C, WITH A GOOD STRENGTH TO DENSITY RATIO. IT CAN BE USED AS AN INSULATING MATERIAL IN BI-WALL LININGS AND ALSO AS A SINGLE COMPONENT LINING, WHERE EROSION CONDITIONS ARE NOT TOO SEVERE. UNLIKE LOOSE FILL SOFT INSULATING BLOCK, RESCOLITE 30 WILL NOT SETTLE OR DISINTEGRATE UNDER ADVERSE CONDITIONS. BELOW IS TYPICAL CAST DATA :

MAXIMUM SERVICE TEMPERATURE (M.S.T.) (1095°C)

BULK DENSITY

After 815°C 29 - 34 LBS/FT³ 465 - 545 KG/M³

COLD CRUSHING STRENGTH

After 540°C 60 - 125 P.S.I. 4.1 - 8.0 KG/CM²
 After 815°C 50 - 100 P.S.I. 3.5 - 7.0 KG/CM²
 After 1095°C 50 - 100 P.S.I. 3.5 - 7.0 KG/CM²

PERMANENT LINEAR CHANGE

After 815°C - 0.50 TO - 1.50 %

CONDUCTIVITY OR "K" FACTOR

| <u>MEAN TEMP</u> | <u>BTU/FT²/HR/°F/IN</u> | <u>W/mK</u> |
|------------------|------------------------------------|-------------|
| @ 260°C (500°F) | 0.95 | 0.14 |
| @ 540°C (1000°F) | 1.05 | 0.15 |
| @ 815°C (1500°F) | 1.15 | 0.17 |

TYPICAL CHEMICAL ANALYSIS (%)

| AL ₂ O ₃ | SiO ₂ | Fe ₂ O ₃ | CaO | MgO | TiO ₂ | ALK |
|--------------------------------|------------------|--------------------------------|------|------|------------------|-----|
| 28.7 | 35.0 | 9.5 | 19.3 | 1.08 | 2.2 | 4.2 |

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. 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

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RESCOLITE 30 CAN ALSO BE READILY APPLIED BY GUNITE APPLICATION. DATA SHOWN ARE AVERAGE RESULTS OF TESTS FOLLOWING THE GUIDELINES SET FORTH IN ASTM C-930-70 "PREPARING REFRACTORY CONCRETE SPECIMENS BY COLD GUNNING".

MAXIMUM SERVICE TEMPERATURE (M.S.T.) (1095°C)

BULK DENSITY

After 815°C 38 - 43 LBS/FT³ 610 - 690 KG/M³

COLD CRUSHING STRENGTH

After 540°C 100 - 200 P.S.I. 7 - 14 KG/CM²
After 815°C 100 - 200 P.S.I. 7 - 14 KG/CM²

PERMANENT LINEAR CHANGE

After 540°C - 0.50 TO - 1.00 %
After 815°C - 0.80 TO - 1.50 %

CONDUCTIVITY OR "K" FACTOR

| <u>MEAN TEMP</u> | <u>BTU/FT²/HR/°F/IN</u> | <u>W/mK</u> |
|------------------|------------------------------------|-------------|
| @ 260°C (500°F) | 1.05 | 0.15 |
| @ 540°C (1000°F) | 1.15 | 0.16 |
| @ 815°C (1500°F) | 1.25 | 0.18 |