



CLAYBURN INDUSTRIES LTD.

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TECHNICAL DATA - TYPICAL

INSULATING CASTABLES

THERMOLITE 25LI

| | | | |
|---|---|------------------------------------|---------------|
| Classification | A <u>low iron</u> medium lightweight 2500°F insulating castable | | |
| Service Limit | 2500°F | | (1370°C) |
| Dry Weight Required to Place 1 cu. ft. (m ³) | 80 lbs | | (1280 Kg) |
| Approx. Water Required for Placement | 27% | | |
| <u>Linear Change on Heating</u> | | | |
| 230°F | (110°C) | Nil % | |
| 1500°F | (816°C) | -0.2 to -0.4% | |
| 2300°F | (1260°C) | -0.8 to -1.2% | |
| <u>Cold Crushing Strength</u> | | | |
| 230°F | (110°C) | 1000-1400 lbs/in ² | (6.9-9.7 MPa) |
| 1500°F | (816°C) | 650-1000 lbs/in ² | (4.5-6.9 MPa) |
| <u>Thermal Conductivity (Mean Temp)</u> | | <u>Btu/ft²•Hr•°F/in</u> | <u>W/mK</u> |
| 400°F | (204°C) | 2.5 | 0.36 |
| 800°F | (427°C) | 2.7 | 0.39 |
| 1200°F | (649°C) | 2.9 | 0.42 |
| <u>Chemical Analysis</u> | | | |
| Silica | SiO ₂ | 42.5% | |
| Alumina | Al ₂ O ₃ | 41.5% | |
| Iron | Fe ₂ O ₃ | 1.0% | |
| ASTM Designation | C401 Class "Q" | | |

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**ALL DATA SUBJECT TO REASONABLE DEVIATION AND THEREFORE
 SHOULD NOT BE USED FOR SPECIFICATION PURPOSES**