



TECHNICAL DATA - TYPICAL

INSULATING CASTABLES

THERMOLITE 25GLI

(Gunned Data)

| | | |
|--|---|-----------|
| Classification | A <u>low iron</u> medium lightweight 2500°F insulating castable suitable for gunning applications | |
| Service Limit | 2500°F | (1370°C) |
| Dry Weight Required to Place 1 cu. ft. (m ³) | 90 lbs | (1441 Kg) |

Linear Change on Heating

| | | |
|--------|----------|---------------|
| 230°F | (110°C) | Nil % |
| 1500°F | (816°C) | -0.3 to -0.5% |
| 2300°F | (1260°C) | -0.8 to -1.2% |

Cold Crushing Strength

| | | | |
|--------|---------|-------------------------------|----------------|
| 230°F | (110°C) | 1200-1600 lbs/in ² | (8.3-11.0 MPa) |
| 1500°F | (816°C) | 1000-1400 lbs/in ² | (6.9-9.7 MPa) |

Modulus of Rupture

| | | | |
|--------|---------|-----------------------------|---------------|
| 230°F | (110°C) | 200-500 lbs/in ² | (1.4-3.4 MPa) |
| 1500°F | (816°C) | 200-400 lbs/in ² | (1.4-2.8 MPa) |

Thermal Conductivity (Mean Temp)

| | | <u>Btu/ft²•Hr•°F/in</u> | <u>W/mK</u> |
|--------|---------|------------------------------------|-------------|
| 400°F | (204°C) | 2.86 | 0.41 |
| 800°F | (427°C) | 2.99 | 0.43 |
| 1200°F | (649°C) | 3.28 | 0.47 |

Chemical Analysis

| | | |
|---------|--------------------------------|-------|
| Silica | SiO ₂ | 48.5% |
| Alumina | Al ₂ O ₃ | 39.0% |
| Titania | TiO ₂ | 2.0% |
| Iron | Fe ₂ O ₃ | 1.1% |
| Lime | CaO | 8.2% |

ASTM Designation C401 Class "Q"