

# LW 7 (Gunned Data)

## Product Data

Ref:78/31/10/12

**Description:** Vermiculite Based Lightweight Insulating Material.

**Features:**

- Use at temperatures up to 1000°C.
- It can be cast or gunned.

**Uses:**

- Multi-purpose insulating applications where high strengths are not required.

### Chemical Analysis: Approximate (Calcined Basis)

|   |       |
|---|-------|
| Silica - SiO <sub>2</sub>                       | 36.2% |
| Alumina - Al <sub>2</sub> O <sub>3</sub>        | 18.3% |
| Titania - TiO <sub>2</sub>                      | 0.7%  |
| Iron Oxide - Fe <sub>2</sub> O <sub>3</sub>     | 2.7%  |
| Lime - CaO                                      | 35.9% |
| Magnesia - MgO                                  | 4.7%  |
| Alkalies - Na <sub>2</sub> O + K <sub>2</sub> O | 1.5%  |

### Physical Properties

|  |                        |
|--|------------------------|
|  | Gunned                 |
| Maximum Recommended Temperature              | 1000°C                 |
| Quantity Required                            | 960 Kgs/m <sup>3</sup> |
| Bulk Density                                 | Kgs/m <sup>3</sup>     |
| After Heating at 105°C                       | 880 - 1040             |
| After Heating at 815°C                       | 800 - 960              |
| Modulus of Rupture - ASTM C133 and C 865     | MPa                    |
| After Heating at 105°C                       | 1.72 - 3.10            |
| After Heating at 815°C                       | 1.38 - 2.41            |
| After Heating at 930°C                       | 0.69 - 1.03            |
| Cold Crushing Strength - ASTM C133 and C865  | MPa                    |
| After Heating at 105°C                       | 1.38 - 5.17            |
| After Heating at 815°C                       | 1.72 - 3.45            |
| After Heating at 930°C                       | 0.69 - 1.38            |
| Permanent Linear Change - ASTM C113 and C865 |                        |
| After Heating at 105°C                       | 0 - 0.2% Shr           |
| After Heating at 815°C                       | 0.5 - 1.5% Shr         |
| After Heating at 930°C                       | 1.0 - 2.5% Shr         |
| Thermal Conductivity                         | W/mK                   |
| At 205°C                                     | 0.23                   |
| At 425°C                                     | 0.26                   |
| At 650°C                                     | 0.27                   |
| Shelf Life (Under Proper Storage Conditions) | 180 days               |

Note: The test data shown are based on average results of control tests and are subject to normal variation on individual tests. These results cannot be taken as maximum or minimum requirements for specification purposes.

MSDS, Installation Guidelines and Dry Out Schedules are also available.