

LW 7

Product Data

Ref:43/31/10/12

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 ₂	36.2%
Alumina - Al ₂ O ₃	18.3%
Titania - TiO ₂	0.7%
Iron Oxide - Fe ₂ O ₃	2.7%
Lime - CaO	35.9%
Magnesia - MgO	4.7%
Alkalies - Na ₂ O + K ₂ O	1.5%

Physical Properties

	Conventional Cast
Maximum Recommended Temperature	1000°C
Quantity Required	800 Kgs/m ³
Water required for mixing per 100 Kgs	54 Litres Approximately
Bulk Density	Kgs/m ³
After Heating at 105°C	750 - 950
After Heating at 815°C	720 - 850
Modulus of Rupture - ASTM C133 and C 865	MPa
After Heating at 105°C	1.0 - 3.0
After Heating at 815°C	0.5 - 3.0
After Heating at 930°C	0.3 - 1.0
Cold Crushing Strength - ASTM C133 and C865	MPa
After Heating at 105°C	2.0 - 4.0
After Heating at 815°C	1.0 - 3.0
After Heating at 930°C	0.5 - 2.0
Permanent Linear Change - ASTM C113 and C865	
After Heating at 105°C	0 - 0.2% Shr
After Heating at 815°C	0.8 - 1.6% Shr
After Heating at 930°C	1.0 - 3.0% Shr
Thermal Conductivity	W/mK
At 205°C	0.20
At 425°C	0.25
At 650°C	0.25
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.