

LW-22

Product Data

Ref:45/31/10/12

Description: 1200°C lightweight hydraulic bonded refractory.

Features: ● Can be placed by casting or gunning.

Uses:

- Oil stills and heaters.
- Lightweight panel construction.
- Flue and duct linings.
- Can be used as a complete monolithic lining or as a back up material.

Chemical Analysis: Approximate (Calcined Basis)

Silica - SiO ₂	42.6%
Alumina - Al ₂ O ₃	31.6%
Titania - TiO ₂	1.1%
Iron Oxide - Fe ₂ O ₃	7.1%
Lime - CaO	15.3%
Magnesia - MgO	0.5%
Alkalies - Na ₂ O + K ₂ O	2.0%

Physical Properties

	Conventional Cast
Maximum Recommended Temperature	1200°C
Quantity Required	815 Kgs/m ³
Water required for mixing per 100 Kgs	53 Litres Approximately
Bulk Density	Kgs/m ³
After Heating at 105°C	790 - 1000
After Heating at 815°C	750 - 880
Modulus of Rupture - ASTM C133 and C 865	MPa
After Heating at 105°C	0.5 - 2.0
After Heating at 815°C	0.3 - 2.0
After Heating at 1095°C	0.3 - 2.0
Cold Crushing Strength - ASTM C133 and C865	MPa
After Heating at 105°C	1.0 - 5.0
After Heating at 815°C	1.0 - 5.0
After Heating at 1095°C	0.5 - 4.0
Permanent Linear Change - ASTM C113 and C865	
After Heating at 105°C	<0.5% Shr
After Heating at 815°C	0.1 - 1.1% Shr
After Heating at 1095°C	0.5 - 1.5% Shr
Thermal Conductivity	W/mK
At 205°C	0.22
At 425°C	0.21
At 650°C	0.24
At 870°C	0.27
Shelf Life (Under Proper Storage Conditions)	365 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.