

LW-22 (Gunned Data)

Product Data

Ref:46/31/10/12

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

Maximum Recommended Temperature	Gunned
Quantity Required	1200°C
Bulk Density	960 Kgs/m ³
After Heating at 105°C	Kgs/m ³
After Heating at 815°C	1010 - 1105
Modulus of Rupture - ASTM C133 and C 865	915 - 1010
After Heating at 105°C	MPa
After Heating at 815°C	1.0 - 5.0
After Heating at 1095°C	0.5 - 4.0
Cold Crushing Strength - ASTM C133 and C865	0.5 - 4.0
After Heating at 105°C	MPa
After Heating at 815°C	3.0 - 7.0
After Heating at 1095°C	1.0 - 3.0
Permanent Linear Change - ASTM C113 and C865	1.0 - 3.0
After Heating at 105°C	<0.5% Shr
After Heating at 815°C	0.2 - 0.5% Shr
After Heating at 1095°C	0.5 - 1.5% Shr
Thermal Conductivity (at the mean temperature of)	W/mK
At 205°C	0.26
At 425°C	0.29
At 650°C	0.30
At 870°C	0.30
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.