

JM 2600
Blakite®
JM 3300



Available Types

JM 2600

It is a high strength and ready-to-use air-setting mortar for operating temperatures up to 1430 °C and can be used for both trowelled and dipped joints.

Blakite®

This is a highly refractory mortar, dark grey in color, which is suitable for use with insulating firebricks, super-duty and high alumina dense refractory bricks, at operating temperatures up to 1650 °C.

It is supplied in a consistency suitable for shallow patching or trowelling but requires the addition of approximately 5% water for dipping.

JM 3300

A very highly refractory air-setting mortar suitable for operating temperatures up to 1760 °C.

Material Type: Refractory air-setting mortars.

Classification Temperature

JM 2600: 1430 °C

Blakite® : 1650 °C

JM 3300: 1760 °C

Description

Thermal Ceramics' refractory mortars are normally supplied as ready-to-use wet blends of finely-ground aggregates and special binders.

They develop good strength on air drying, forming strong joints and conferring an almost monolithic structure to the brickwork.

Maximum Use Temperature

The maximum use temperature depends on the application. Refer to our company for advice.

Features

- Good workability, ideal plasticity and water retention.
- Low drying and firing shrinkages.
- High refractoriness.
- High bonding strength.
- Good resistance to chemical attack.
- High chemical stability.

Applications

- For laying JM insulating firebricks, high alumina dense refractory bricks and other insulation bricks.
- Provide resistance to infiltration of air or hot gases.
- Retard penetration of slag and molten metal into the joints.
- Hobby and laboratory kilns.

| Main Properties | JM 2600 | Blakite® | JM 3300 |
|--|---------------------|--------------------|--------------------|
| Classification (ASTM C -199 - 84) Temperature limit, °C (normal oxidizing conditions) | Medium Duty 1430 | Super Duty 1650 | Super Duty 1760 |
| Properties Measured At Ambient Conditions (23°C / 50% RH) Density, kg/m ³ (as applied) | 1700 | 1900 | 2000 |
| Viscosity, "for guidance" (Thermal Ceramics method Cylinder Penetration) | 30 | 24 | 25 |
| Modulus of Rupture, MPa (dried at 100°C) | 12 | 20 | 28 |
| High Temperature Performance Permanent linear deformation after dried (After 24 hours), % | -3 | -2.4 | -2 |
| Refractoriness, PCE (ASTM C - 24 - 84) | 23 | 33 | 34 |
| Chemical Composition, % Al ₂ O ₃ | 33.4 | 43.1 | 54.8 |
| SiO ₂ | 60.7 | 51.7 | 40.6 |
| Fe ₂ O ₃ | 1.3 | 1.2 | 0.9 |
| TiO ₂ | 1.2 | 1.0 | 0.6 |
| CaO + MgO | 0.3 | 0.2 | 0.2 |
| Na ₂ O + K ₂ O | 2.8 | 2.7 | 2.3 |
| Quantity required to set 1000 bricks* (kg) | 180 | 200 | 200 |
| * Amount depends upon the thickness of the joint and porosity of the brick. The figure given is for trowelled joint, approx 2 mm thick. | | | |

Standard Packaging

- JM 2600, Blakite and JM 3300 are supplied ready-to-use, in metal drums.
- JM 2600 and Blakite are available as dry upon request.

| Standard Packaging | JM 2600 | Blakite® | JM 3300 |
|-------------------------------------|---------|----------|---------|
| 12 metal drums of 50 kgs per pallet | X | X | X |
| 40 metal drums of 20 kgs per pallet | – | X | – |

The values given herein are typical average values obtained in accordance with standard test methods and subject to normal manufacturing variations. They are supplied as technical data and may change without notice. Contact our company to obtain detailed information.

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