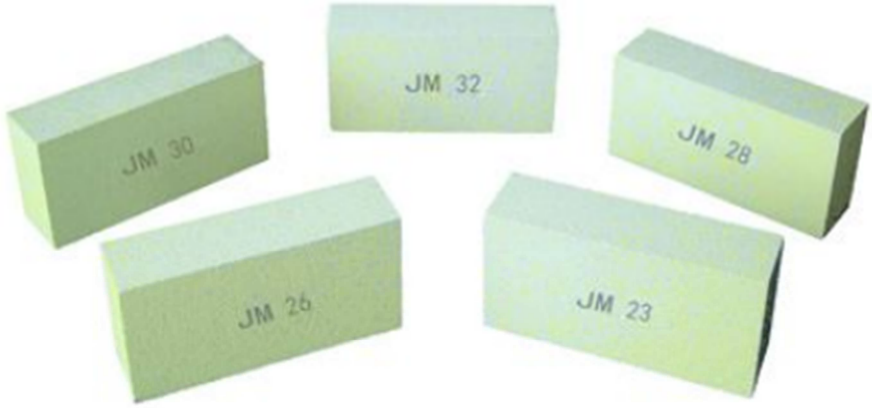
INSULATING BRICKS



Under standard of ISOLOTE JISR-2615

PROPERTIES

- Light weight brick good for energy conservation.
- Low thermal conductivity and excellent heat resistance.
- Good volume stability at high temperature.

APPLICATIONS

- Backup lining for fireclay brick and high alumina brick in boilers, ceramic kiln, reheating furnace, glass furnace, periodic kiln and high efficiency incinerators, etc.
- Backup lining of cyclone preheaters and cooler in cement plant, hot gas generator, hot air direct stack and floor lining for kiln car, etc.

B2

CLASSIFICATION: FIRECLAY INSULATING BRICK

PHYSICAL PROPERTIES

Maximum service temperature	℃	1,100
Bulk Density	kg/m^3	650-750
Apparent Porosity	%	50-60
Cold crushing strength	MPa	2.5-3.0
Modulus of rupture	Kg/cm^2	10-15
Reheat test, Permanent linear change		
After heating at 1,000℃	%	-0.3

THERMAL EXPANSION

At 400℃	Kcal/m.hr ℃	0.20
At 600℃	Kcal/m.hr ℃	0.25
At 800℃	Kcal/m.hr ℃	0.25

CHEMICAL COMPOSITION: (APPROXIMATE)

Silica(SiO_2)	%	51.2
Alumina(Al_2O_3)	%	18.5
Iron Oxide(Fe_2O_3)	%	1.8
Calcium Oxide(CaO)	%	28.0

★All the technical data are typical of the properties of commercial standard brick. The data are subject to reasonable variation, should not be used for specification purpose.

C1(JM23)

CLASSIFICATION: MULLITE INSULATING BRICK

PHYSICAL PROPERTIES

Maximum service temperature	℃	1,260
Bulk Density	kg/m^3	700-800
Apparent Porosity	%	50-55
Cold crushing strength	MPa	2.3-2.5
Modulus of rupture	Kg/cm^2	6.0-7.0
Reheat test, Permanent linear change		
After heating at 1,230℃	%	-0.5

THERMAL EXPANSION

At 400℃	Kcal/m.hr ℃	0.14
At 600℃	Kcal/m.hr ℃	0.15
At 800℃	Kcal/m.hr ℃	0.20

CHEMICAL COMPOSITION: (APPROXIMATE)

Silica(SiO_2)	%	46.5
Alumina(Al_2O_3)	%	40.2
Iron Oxide(Fe_2O_3)	%	1.0

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C2(JM26)

CLASSIFICATION: MULLITE INSULATING BRICK

PHYSICAL PROPERTIES

Maximum service temperature	℃	1,430
Bulk Density	kg/m^3	800-900
Apparent Porosity	%	50-60
Cold crushing strength	MPa	2.5-2.8
Modulus of rupture	Kg/cm^2	6.0-8.0
Reheat test, Permanent linear change		
After heating at 1,230℃	%	-0.7

THERMAL EXPANSION

At 400℃	Kcal/m.hr ℃	0.33
At 600℃	Kcal/m.hr ℃	0.35
At 800℃	Kcal/m.hr ℃	0.40

CHEMICAL COMPOSITION: (APPROXIMATE)

Silica(SiO_2)	%	43.6
Alumina(Al_2O_3)	%	56.5
Iron Oxide(Fe_2O_3)	%	0.8

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C3(JM28)

CLASSIFICATION: MULLITE INSULATING BRICK

PHYSICAL PROPERTIES

Maximum service temperature	℃	1,540
Bulk Density	kg/m^3	900-950
Apparent Porosity	%	60-70
Cold crushing strength	MPa	2.5-2.8
Modulus of rupture	Kg/cm^2	6.0-8.0
Reheat test, Permanent linear change		
After heating at 1,230℃	%	-0.5

THERMAL EXPANSION

At 400℃	Kcal/m.hr ℃	0.30
At 600℃	Kcal/m.hr ℃	0.33
At 800℃	Kcal/m.hr ℃	0.38

CHEMICAL COMPOSITION: (APPROXIMATE)

Silica (SiO_2)	%	30
Alumina (Al_2O_3)	%	65
Iron Oxide (Fe_2O_3)	%	0.7

★All the technical data are typical of the properties of commercial standard brick. The data are subject to reasonable variation, should not be used for specification purpose.