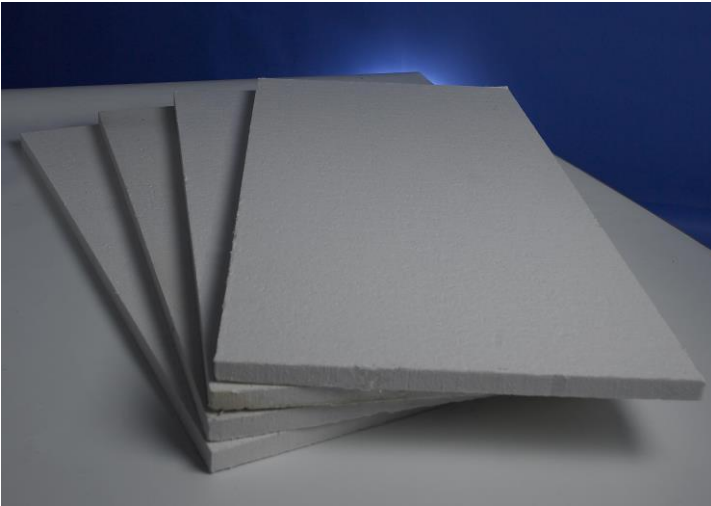


CERAMIC FIBRE BOARDS

Murugappa Morgan Thermal Ceramics Ltd., Associate company of Murugappa Group



TYPE: Rigid board based on refractory fibres

Classification temperature:

| | |
|--------------|----------------------|
| STD Board | : 1260 ° C |
| AZS Board | : 1400 ° C |
| S Board | : 1260 ° C |
| E Board | : 1100 ° C |
| Baffle Board | : 1260 ° C & 1400° C |

DESCRIPTION

Ceramic fibre boards are rigid self supporting insulating product manufactured from Refractory fibres. Ceramic fibre boards are designed for use in application conditions requiring superior insulating properties combined with high rigidity and mechanical strength

AVAILABILITY

Standard sizes:

- 500 mm width X 1000 mm length
- 1000 mm width X 1000 mm length
- 1000 mm width X 1200 mm length

FEATURES

- Excellent insulating performance
- Excellent thermal stability
- Low heat storage
- Resistance to thermal shock
- Good machinability

APPLICATIONS

- Back up insulation in refractory construction
- High temperature ceramic kiln & cars
- Hot face lining material in furnace building
- Back up insulation in steel ladles
- Back up insulation in Glass melting furnace
- Molten aluminium handling applications

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MAIN PROPERTIES

| Physical Properties | STD Board | AZS Board | S Board | E Board | Baffle Board | |
|--|--------------|--------------|--------------|--------------|--------------|--------------|
| Classification temperature ° C | 1260 | 1400 | 1260 | 1100 | 1260 | 1400 |
| Chemical composition (%) (IS:12107 / XRF) | | | | | | |
| Al ₂ O ₃ | > 40 | > 29 | > 44 | > 30 | > 40 | > 29 |
| SiO ₂ | < 60 | < 55 | < 56 | < 60 | < 60 | < 55 |
| ZrO ₂ | - | > 10 | - | < 19.5 | - | > 10 |
| Loss on ignition % | < 10 | < 10 | < 10 | < 10 | < 10 | < 10 |
| Density (Nominal) kg/m ³ | 240 | 240 | 330 | 240 | 250-325 | 250-325 |
| Modulus of Rupture (Kpa) up to 25 mm thick | 500 | 500 | 1000 | 200 | 400 | 400 |
| Modulus of Rupture (Kpa) Above 25 mm thick | 200 | 200 | 700 | 125 | 150 | 150 |
| Linear shrinkage % - 24 hrs (Max) (ENV 1094-7) | 4.0 (1200°C) | 4.0 (1350°C) | 4.0 (1200°C) | 3.5 (1100°C) | 4.0 (1200°C) | 4.0 (1350°C) |
| Thermal conductivity (w/mk) | | | | | | |
| 600°C (Mean temperature) (ASTM C 201) | 0.11 | 0.11 | 0.13 | - | 0.11 | 0.11 |
| Thickness (mm) | | | | | | |
| 5 | ✓ | ✓ | ✓ | - | - | - |
| 10 | ✓ | ✓ | ✓ | ✓ | - | - |
| 12 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 15 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 20 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 25 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 30 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 40 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 50 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 60 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 75 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| 100 | ✓ | ✓ | - | ✓ | ✓ | ✓ |
| 125 | ✓ | ✓ | - | - | - | - |
| 150 | ✓ | ✓ | - | - | - | - |

All above boards are subjected to standard tolerances. The values given herein are typical values obtained in accordance with accepted test methods and subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Therefore, the data contained herein should not be used for specification purposes.