

## COMPRESSIBLE BOARD



U-1 is a high-temperature millboard that is easily cut, punched and shaped. It works well as a roll-cladding material and as compressible gasketing. A unique characteristic of the asbestos-free board is its ability to be formed into various shapes by wet molding. After drying, its mechanical properties remain constant.

U-1 is made from high-quality, shot-free mineral wool and inert fillers. It exhibits excellent flame and heat resistance with virtually no dimensional changes. It has self-cleaning properties and has no shot or abrasive elements to scratch hot glass.

Our machine shops are equipped with the most modern machine tools to produce complex components to customer specifications.

| Shrinkage (%) |      |        |       |           |
|---------------|------|--------|-------|-----------|
| °C            | °F   | Length | Width | Thickness |
| 500           | 932  | -0.60  | -0.78 | +9.6      |
| 800           | 1472 | -0.38  | -0.45 | -2.2      |
| 1000          | 1830 | -0.89  | -0.25 | -1.9      |

| Tensile Strength (%) |         |     |                     |
|----------------------|---------|-----|---------------------|
| °C                   | °F      | MPa | lbs/in <sup>2</sup> |
| ambient              | ambient | 4.0 | 580                 |
| 500                  | 932     | 1.8 | 218                 |
| 800                  | 1472    | 3.5 | 506                 |

| Dimensions            |                     |
|-----------------------|---------------------|
| Available Board Forms | Available Thickness |
| 1 x 1 m               | 2.5–12 mm           |
| 40 x 40 in            | 3/32–1/2 in         |

### APPLICATIONS

- Glass lehr rolls
- Gaskets and seals
- Furnace lining
- Catwalk insulation
- Ball mill insulation
- High-temperature compression gaskets

### ADVANTAGES

- Asbestos-free
- Excellent thermal stability
- High mechanical strength
- Non-abrasive
- Wet mouldable

### PHYSICAL PROPERTIES

#### DENSITY

- 875 kg/m<sup>3</sup>
- 55 lbs/ft<sup>3</sup>

#### MOISTURE CONTENT

- 1%

#### CONTINUOUS SERVICE TEMPERATURE

- 1000°C
- 1830°F

#### THERMAL CONDUCTIVITY

- 0.11–0.15 W/(m·K)
- 0.77–1.05 BTU-in/ft<sup>2</sup>/hr°F

#### COMPRESSIVE STRENGTH

- 27% at 7 MPa (1,015 lbs/in<sup>2</sup>)
- 42% at 21 MPa (3,045 lbs/in<sup>2</sup>)

#### FLEXURAL STRENGTH

- 6.5 MPa at 22°C
- 943 lbs/in<sup>2</sup> at 72°F

Note: The physical and chemical properties listed represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice.

Product Type: 135, 165, 545

Commodity Code: 04020

Contact Information: [www.pyrotek.info/locations](http://www.pyrotek.info/locations)