

## isoplan 1100

### Material profile:

- Insulation material based on ceramic fibres which stands out for its high temperature limit and low heat conductivity.

### Typical applications:

- Steel works, foundries
- Furnace and boiler construction

### Supply data:

- Sheet sizes in mm: 1000x1000
- Thickness in mm: 1.5 / 2.0 / 3.0 / 4.0 / 5.0 / 6.0 / 7.0 / 8.0 / 10.0
- Special sheet sizes upon request
- Other thicknesses upon request

| General data                                       | Binder:                 | organic                         |                      |                      |
|--|-------------------------|---------------------------------|----------------------|----------------------|
|  | Colour:                 | white with blue honeycomb brand |                      |                      |
|  | Temperature limit:      | 1100°C                          |                      |                      |
|  | Tolerance in thickness: | ± 10 %                          |                      |                      |
| Physical properties<br>(sample thicken.<br>5.0 mm) | Property                | Standard                        | Unity                | Value *              |
|  | Density                 | DIN 28 090-2                    | [g/cm <sup>3</sup> ] | 0.91                 |
|  | Tensile strength        | DIN 52 910                      |                      |                      |
|  |                         |                                 | longitudinal         | [N/mm <sup>2</sup> ] |
|  |                         | transverse                      | [N/mm <sup>2</sup> ] | 2                    |
|  | Compressibility         | ASTM F 36 K                     | [%]                  | ≤ 25                 |
|  | Recovery                | ASTM F 36 K                     | [%]                  | ≥ 30                 |
|  | Loss on ignition        | DIN 52 911                      | [%]                  | 17                   |
|  | Decrease in thickness   | 1h/800°C                        | [%]                  | ≤ 2.5                |
|  | Shrinkage by surface    | 1h/800°C                        |                      |                      |
|  |                         |                                 | longitudinal         | [%]                  |
|  |                         | transverse                      | [%]                  | ≤ 2                  |
| Heat conduct. at 400°C average                     |                         | [W/(m*K)]                       | 0.11                 |                      |

\* = Mode (typical value)

Issue: 05.05

Modifications: 3

Supersedes all prior versions

The technical data stated has been determined with standard material under laboratory conditions. With the variety of installation and operating conditions no guarantee claim can be inferred regarding the behaviour in a specific application.

We reserve the right to product changes which serve the purpose of technical progress.