

|                                                                                | Value          | Unit                                                                    |
|--------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------|
| Maximum service temperature                                                    | 1,100<br>2,012 | °C<br>°F                                                                |
| Bulk density                                                                   | 375<br>23      | kg/m <sup>3</sup><br>lb/ft <sup>3</sup>                                 |
| Cold crushing strength (EN ISO 8895)                                           | 1.3<br>189     | MPa<br>lb/in <sup>2</sup>                                               |
| Modulus of rupture (EN 12089)                                                  | 0.3<br>44      | MPa<br>lb/in <sup>2</sup>                                               |
| Linear reheat shrinkage (EN 1094-6) after 12 hours at 1,000°C (1,832°F)        | 1.0            | %                                                                       |
| Total porosity (EN 1094-4)                                                     | 85             | %                                                                       |
| Coefficient of reversible thermal expansion at 20°C to 750°C (68°F to 1,382°F) | 11.0<br>6.1    | ×10 <sup>-6</sup> K <sup>-1</sup><br>×10 <sup>-6</sup> °F <sup>-1</sup> |
| Resistance to thermal shock (EN 993-11)                                        | > 30           | Cycles                                                                  |

| Thermal conductivity (ASTM C-182) | Mean temperature |      |                                |
|-----------------------------------|------------------|------|--------------------------------|
|                                   | 200°C            | 0.12 | W/(m×K)                        |
|                                   | 400°C            | 0.15 | W/(m×K)                        |
|                                   | 600°C            | 0.16 | W/(m×K)                        |
|                                   | 800°C            | 0.19 | W/(m×K)                        |
|                                   | 392°F            | 0.83 | BTU/(ft <sup>2</sup> ×h×°F/in) |
|                                   | 752°F            | 1.04 | BTU/(ft <sup>2</sup> ×h×°F/in) |
|                                   | 1,112°F          | 1.11 | BTU/(ft <sup>2</sup> ×h×°F/in) |
|                                   | 1,472°F          | 1.32 | BTU/(ft <sup>2</sup> ×h×°F/in) |

| Chemical analysis                     |                                |      |   |
|---------------------------------------|--------------------------------|------|---|
| Silica                                | SiO <sub>2</sub>               | 46   | % |
| Titanium dioxide                      | TiO <sub>2</sub>               | 0.7  | % |
| Ferric oxide                          | Fe <sub>2</sub> O <sub>3</sub> | 5.5  | % |
| Alumina                               | Al <sub>2</sub> O <sub>3</sub> | 7.0  | % |
| Magnesium oxide                       | MgO                            | 19.0 | % |
| Calcium oxide                         | CaO                            | 3.5  | % |
| Sodium oxide                          | Na <sub>2</sub> O              | 0.2  | % |
| Potassium oxide                       | K <sub>2</sub> O               | 10.0 | % |
| Loss on ignition at 1,025°C (1,877°F) | LOI                            | 7.0  | % |

|                                                                       |            |  |
|-----------------------------------------------------------------------|------------|--|
| HS Tariff number (Harmonized Commodity Description and Coding System) | 6806.90.00 |  |
| Colour                                                                | Sand       |  |

Data are average results of tests conducted under standard procedures and are subject to variation. Data contained in this data sheet are supplied in good faith as a technical service and are subject to change without notice. Misprint and errors excepted. Revision number: 1.7.2025

| Size                 | Length                          | Width                           | Thickness          |
|----------------------|---------------------------------|---------------------------------|--------------------|
| Maximum              | 1,260mm                         | 1,000mm                         | 134mm              |
| Minimum              | According to your specification | According to your specification | 25mm               |
| Standard tolerances* | Up to $\pm 4.0$ mm              | Up to $\pm 2.5$ mm              | Up to $\pm 1.0$ mm |
| Machined tolerances* | Up to $\pm 2.5$ mm              | Up to $\pm 2.5$ mm              | Up to $\pm 1.0$ mm |

\*Dimensional tolerances depend on length and width

## General information

Not all size combinations are available for ordering.

Contact Skamol for the tolerance for a specific size.

## Standard sizes

Check your Skamol price list or contact Skamol with your request.

## Machining

Special shapes machined to customer specification can be supplied for specific design requirements.

## Packaging

Products will be packed according to the Skamol standard.



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