

Skamol Alu Poros 570

Industry

| | Value | Unit |
|--|-------|------------------------------------|
| Maximum service temperature | 900 | °C |
| | 1,652 | °F |
| Bulk density | 570 | kg/m ³ |
| | 36 | lb/ft ³ |
| Cold crushing strength (DS/EN ISO 8895_2006) | 3.0 | MPa |
| | 435 | lb/in ² |
| Linear reheat shrinkage (EN 1094-6:1999) after 12 hours at 850°C (1,562°F) | 1.0 | % |
| Total porosity (EN 1094-4:1995) | 74 | % |
| Coefficient of reversible thermal expansion at 20°C to 750°C (68°F to 1,382°F) | 3.8 | ×10 ⁻⁶ K ⁻¹ |
| | 2.1 | ×10 ⁻⁶ °F ⁻¹ |

| Thermal conductivity (ASTM C-182) | mean temperature | | |
|-----------------------------------|------------------|------|--------------------------------|
| | 200°C | 0.11 | W/(m×K) |
| | 400°C | 0.13 | W/(m×K) |
| | 600°C | 0.15 | W/(m×K) |
| | 800°C | 0.18 | W/(m×K) |
| | 392°F | 0.76 | BTU/(ft ² ×h×°F/in) |
| | 752°F | 0.90 | BTU/(ft ² ×h×°F/in) |
| | 1,112°F | 1.04 | BTU/(ft ² ×h×°F/in) |
| | 1,472°F | 1.25 | BTU/(ft ² ×h×°F/in) |

| Chemical analysis | | | |
|---------------------------------------|--------------------------------|-----|---|
| Silica | SiO ₂ | 81 | % |
| Titanium dioxide | TiO ₂ | 0.3 | % |
| Ferric oxide | Fe ₂ O ₃ | 2.7 | % |
| Alumina | Al ₂ O ₃ | 6.6 | % |
| Magnesium oxide | MgO | 0.9 | % |
| Calcium oxide | CaO | 5 | % |
| Sodium oxide | Na ₂ O | 0.1 | % |
| Potassium oxide | K ₂ O | 0.9 | % |
| Loss on ignition at 1,025°C (1,877°F) | LOI | 2.6 | % |

| | | |
|---|------------|--|
| HS Tariff number (Harmonized Commodity Description and Coding System) | 6901.00.00 | |
| Colour | Orange | |

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: 11.1.2021

| Size | Length | Width | Thickness |
|----------------------|---------------------------------|---------------------------------|-----------|
| Maximum | | | |
| Minimum | According to your specification | According to your specification | |
| Standard tolerances* | | | |
| Machined tolerances* | | | |

*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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Skamol Group

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