

Keralpor S

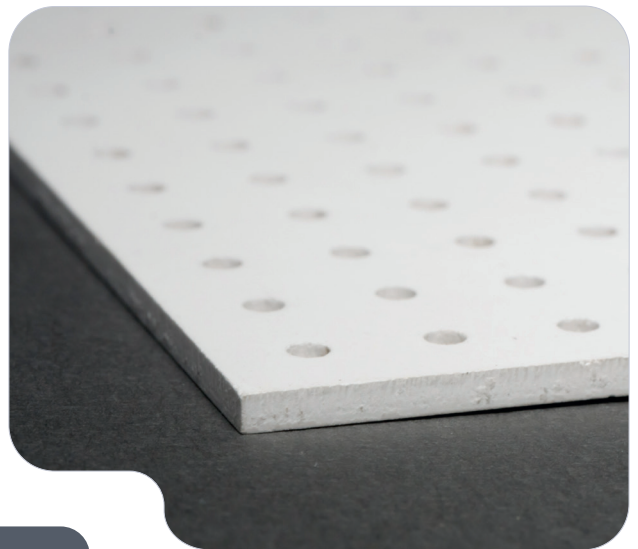
Alumina 92% + 8% Zirconia porous

Applications

- setter plate for Metal Injection Moulding (MIM) parts
- setter plate for Ceramic Injection Moulding (CIM) parts
- setter plate for high demand of thermo shock resistance

Advantages

- dust-and particle-free surface
- homogeneous pore distribution over the entire setter
- very good mechanical strength despite to the high porosity
- cutting by water jet or laser is possible
- good thermal shock resistance
- good planarity and surface quality
- customized dimensions of the setters are possible
- gases can freely diffuse through the settermatrix



Typical characteristics	Unit	Value
Colour		white
Gross density	g/cm ³	2.7
Surface roughness R _a	µm	0.7
Bending strength	MPa	80
Camber	%	< 0.3
Porosity	Vol.%	32
Dimensions	mm	10 x 10 up to 310 x 310
Standard thicknesses	mm	1.6
Main components	%	92% Al ₂ O ₃ + 8% ZrO ₂
Maximum operation temperature	T _{max}	1400°C

The Keralpor S is a setter, which can be used for sintering various of Metal Injection Moulded (MIM) - products and materials. The advantage of this porous zirconia toughened alumina is its good thermal shock resistance and high mechanical strength. Through the 32% porous structure, adhesion of the sintered part will be prevented.

Due to the porous structure of the setter, adherences of the overlying green ware can be avoided. Customers use Keralpor S especially for debinding and sintering stainless steel MIM products and for fast cooling processes in the kiln.

! All sizes are available with a thickness of 1.6 mm!

Please ask for your tailormade dimensions and we will create your Keralpor S quickly.

Note

Disclaimer of Warranties and Limitation of Liability

The specifications provided in this data sheet do not constitute a guarantee or warranty of specific product properties („quality guarantee“). These specifications are derived from our standardized testing procedures conducted under controlled laboratory conditions and are intended to describe the typical properties of the products as expected under standard applications. Variations may occur depending on the specific application. Accordingly, it is the responsibility of the customer to test and evaluate the products for their intended use, and adjustments to the application may be required.

The customer assumes full responsibility for the safety and functionality of their applications in which these products are integrated. Appropriate safety measures must be implemented to prevent bodily injury, fire, or other damages resulting from product defects. The customer is also responsible for ensuring that the design of their application complies with all applicable laws, regulations, codes, and standards. Unless expressly authorized by us in writing, our products must not be used in any application where product failure or the consequences thereof could reasonably be expected to result in personal injury or harm. We make no representations, warranties, or assurances regarding the accuracy, completeness, or suitability of the information contained herein, including, without limitation, any warranty of non-infringement of third-party intellectual property rights.

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