

Keralpor S

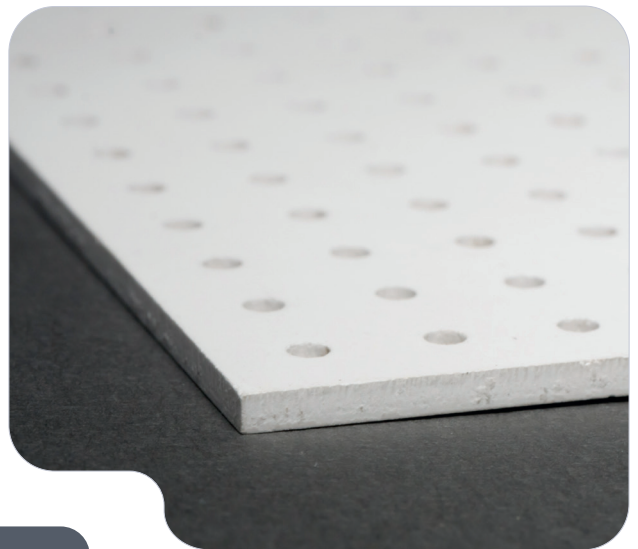
Alumina 92% + 8% Zirconia porous

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

! 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.

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.



Note

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. KERAFOLE is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product. All specifications are subject to change without notice. Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded. In case KERAFOLE would be nevertheless held liable, on whatever legal ground, KERAFOLE's liability will in no event exceed the amount of the concerned delivery. All KERAFOLE products are sold pursuant to the KERAFOLE's Terms and Conditions of sale and delivery in effect from time to time, a copy of which will be furnished upon request.

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