

Keralpor S

Alumina 92% + 8% Zirconia



The Keralpor S is a setter, which can be used for sintering various of metal injection moulding (MIM) - products and materials. The advantage of this porous zirconia toughened alumina is its good thermal shock resistance and high mechanical strength. Through the 38% 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 process in the kiln.

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

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

Typical characteristics	Unit	Value
Colour	-	white
Gross density	g/cm ³	2.8
Surface roughness R _a	µm	0.7
Bending strength	MPa	80
Camber	%	< 0.3
Porosity	Vol. %	38
Dimensions	mm	10 x 10 up to 350 x 350
Thickness	mm	1.6
Compounding	%	92% Al ₂ O ₃ + 8% ZrO ₂
Maximum operation temperature	T _{max}	1400°C

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

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

Important notes

The data presented in this leaflet are in accordance with the present state of our knowledge. All statements, technical information and recommendations herein are based on tests we believe to be reliable. The customer is thereby not absolved from carefully checking all supplies immediately on receipt. The recommendations made in this catalogue should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. Before using, user shall determine the suitability of the product for its intended use, and the user assumes all risks and liability whatsoever in connection there with. We reserve the right to alter product constants within the scope of technical process or new developments. The recommendations do not absolve the customer from the obligation of investigating the possibility of infringement of third parties right and, if necessary, clarifying the position. Sellers' and manufacturer' only obligation shall be to replace such quantity of the product proved to be defective. Neither seller nor manufacturer shall be liable either in tort or contract for any loss or damage, direct or incidental, or consequential, including loss of profits or revenue arising out of the use or the inability to use a product. No statement, purchase order or recommendations by seller or purchaser not contained herein shall have any force or effect unless in an agreement signed by the officers of the seller and manufacturer.

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