

Keralpor 99 Z

Ceramic Setter Plates

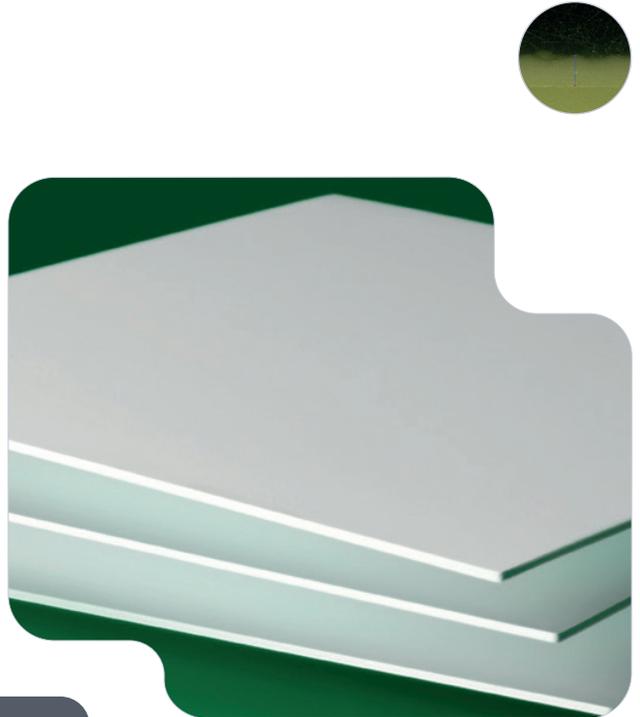
(Alumina Support with Zirconia Coating)

Applications

- Zirconia ceramics, including dental and technical ceramics
- Solid oxide fuel cells (SOFC) and solid oxide electrolysis cells (SOEC)
- Titanium and other metal injection molding (MIM) components
- Additive manufacturing (AM), providing support and sintering of 3D printed ceramic and metal parts
- Prototyping, small-series, and full-scale production

Advantages

- setter for high-quality ceramic and metal injection moulding (MIM) components
- gases can freely diffuse through the setter and coating
- customized dimensions of the setter are possible
- good mechanical strength compared to the high open porosity
- very good flatness and surface quality



Typical characteristics	Unit	Value
Colour		white
Gross density	g/cm ³	2.56
Surface roughness R _a	µm	< 1
Bending strength	MPa	60
Camber	%	< 0.3
Porosity	Vol.%	36 - 38
Average pore size	µm	1
Dimensions	mm	10 x 10 / 150 x 150 / 168 x 168
Standard thicknesses	mm	2.0
Main components	%	99.5 Al ₂ O ₃
Zirconia coating (one-sided)		3mol.% Yttrium stabilized zirconia
Colour of zirconia coating		beige
Maximum operation temperature	T _{max}	1400°C

The Keralpor 99 Z Plates deliver strong, defect-free sintering for zirconia ceramics, SOFC/SOEC, titanium MIM, and additive manufacturing. Zirconia coating prevents contact reactions, open porosity ensures controlled venting, and flexible dimensions with high surface quality simplify production and maximize yield.

Please ask for your tailor-made dimensions and we will create your Keralpor 99 Z quickly.

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Note

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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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