

# Keralpor Ultra Sinter-Plates

## PRELIMINARY DATA SHEET

### Applications

- Sinter-Plates für the metal injection moulded (MIM) debinding and sintering process.
- Sinter-Plates for the LTCC & HTCC debinding and sintering process.
- Sinter-Plates for the dental ceramics
- Sinter-Plates for the ceramic injection moulded (CIM) debinding sintering process
- Diaphragma for gas-sensors

### Advantages

- Save of energy costs due to lower weight
- Save of process time due to good thermal shock resistance
- Increased yield
- smoother surfaces
- Fine porous structure
- High alumina content with (>99% Al<sub>2</sub>O<sub>3</sub>)
- Low or even no contact reactions with your materials
- No high tooling costs due to our process of using a ceramic tape
- Use one plate for debinding and sintering, no extra shelves



Typical characteristics	Unit	Value
Colour		white
Density	g/cm <sup>3</sup>	2.7
Bending strength	MPa	> 90
Main components	%	> 99 Al <sub>2</sub> O <sub>3</sub>
Surface roughness	µm	0.4
Camber longest edge	%	< 0.3
Porosity	%	32 - 35
Thickness	mm	1.5
Max. operation temperatur	°C	1500
Surface roughness R <sub>a</sub>	Ra	0.4

Fine grainsized porous high alumina ceramic plate with a brought field of applications and outstanding properties

! We cut the material according to your wishes!  
Please send in your CAD data.



## 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.

05-2024