

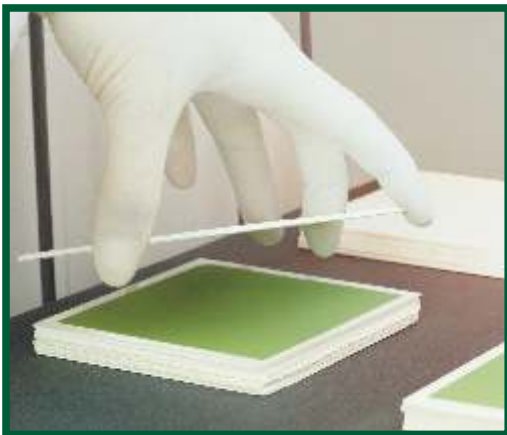
Keralpor 99 Z

zirconia layered alumina setters

porous alumina ceramic setters layered single - sided with zirconia

ADVANTAGES

- When using Keralpor as sintering base or sintering support its high planarity makes it possible to achieve very accurate sinter results.
- Due to the porosity of the zirconia layered alumina ceramic gases can diffuse by the material.
- When sintering products contain high amounts of binder, the debinding gases can be removed well.
- Due to Keralpor's small thickness and gross density the weight of the individual plates is very light. Thereby the kiln furniture setup is not additionally strained.
- By the porous structure of Keralpor adherences of the overlying green ware can be avoided.
- The zirconia layer prevents the anode-material, which contains often NiO-YSZ from reactions with the Al_2O_3 . As an effect the capacity of the MEA keeps well-preserved.



TECHNICAL INFORMATION

Characteristics	Unit	KERALPOR 99 Z
colour	-	white
gross density	g/cm ³	2,56
porosity	Vol%	40
surface roughness R _{max}	µm	12
surface roughness R _a	µm	0,7
surface roughness R _{max} (layered side)	µm	38
surface roughness R _a (layered side)	µm	5
bending strength DIN 52 292	N/mm ²	circa 60

FIELDS OF APPLICATION

Setter-plates for sintering high efficient MEAs or electrolytes for SOFC applications