
PT-CERAMIC®

YOUR APPLICATION
OUR SOLUTION

P T - C E R A M I C ®



Paper-Technological produced ceramic - utilizing the production capacity of an industrial paper-machine under use of synthetic, high-purity alumina as filler.

This ensures high quantities of high quality, thin alumina ceramic with good reproducibility.

Advantage of the technology

Paper-technological casting by corrugation, stamping and folding enables a great variety of structures. Due to their high percentage of void these structures have a low volume weight. Nevertheless a good mechanical strength is assured.

- › Use of different, custom-designed fillers (alumina, mullite, cordierite)
- › Variable thickness
- › Use of paper-technological casting technologies possible (corrugation, stamping, folding)

Advantage of the ceramic

- › High chemical purity > 99,5 % Alumina
- › Good mechanical strength
- › Good thermal shock behavior
- › Size accuracy $\pm 0,1\text{mm}$
- › Thin and light

Light-weight construction for kiln furniture

- › Low weight of kiln furniture
- › Faster firing-cycles
- › Lesser energy consumption
- › Lesser CO₂ emission

Future possibilities of application

- › Kiln furniture (Setter plates, plates, Trays)
- › Chem. industry (fillers, filters)
- › Electrical Engineering (flash-over protection, separator)

TECHNICAL DATA

Basic raw material:	Alumina	
Classification temperature:	1650 °C	
Continuous application:	1600 °C	
Porosity:	21,5 Vol- %	
Density (Liner):	2,95 g/cm ³	
Density (Dividers):	~ 0,5 g (variable)/cm ³	
Chemical analyses fired (EN 955-2; 4):	Al ₂ O ₃	> 99,5 %
Maximum size (state of technology):	Liner	400 x 400 mm
	Divider	300 x 300 mm
Flexural strength at 20 °C:	Liner	130 MPa
	Divider	25 MPa
Flexural strength at 1500 °C:	Liner	n.a.
	Divider	6 MPa
Available Thickness (Liner):	0,65; 1,1 mm	
Thermal shock behavior (Liner):	very good	



