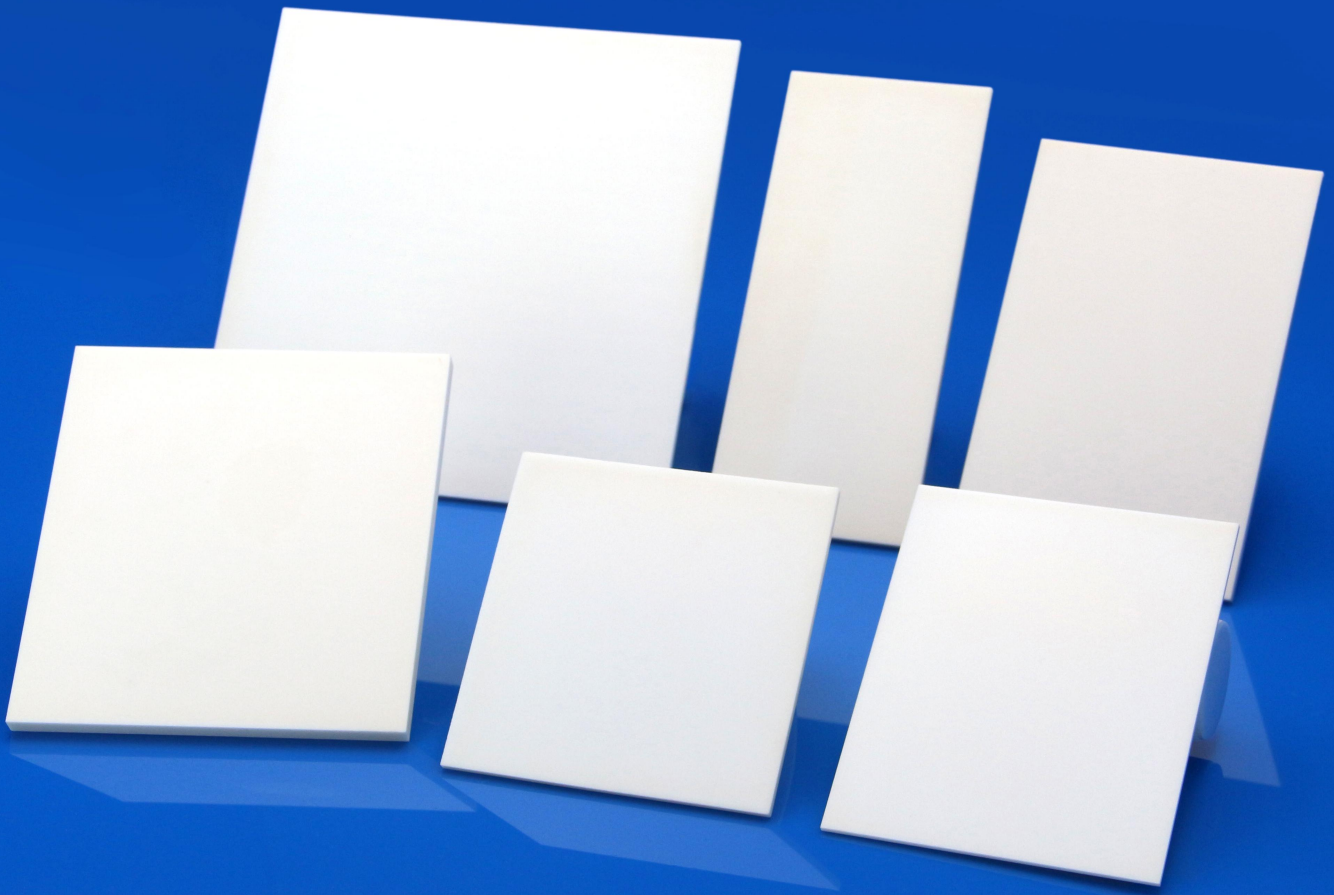




Ceramic Setter Plate for MIM and CIM

■ Introduction



Innovacera manufactures ceramic setter plates for high demands on geometry and material quality for your components. The setter plate is widely use for sintering and debinding of metal injection molding, ceramic injection molding, piezoelectric ceramic transducer (PZT) or Solid Oxide Fuel Cell (SOFC) products.

Ceramic sintering tray and setter plates assist optimally array and fix molded parts in a sintering furnace to prevent brown part deformations during the firing process. Ceramic setter plate offer decisive advantages over conventional setters made from materials like graphite or tungsten. This enables energy and cost-efficient processing of high-precision sintering components.

■ Ceramic Material For Setter Plate

- Aluminum Oxide (Al_2O_3) ceramic setter plate
- Boron Nitride (HBN) ceramic setter plate
- Aluminum Nitride (AlN) ceramic setter plate



■ Properties

- Dust-free and particle-free surface
- Homogeneous pore size distribution
- Good mechanical strength with the high porosity
- Easy machinable, big customized dimensions of the setter possible
- Very good planarity and surface quality
- Homogenous shrinking through unimpeded shrinkage
- Absorption of the binder into the pores during the debinding process

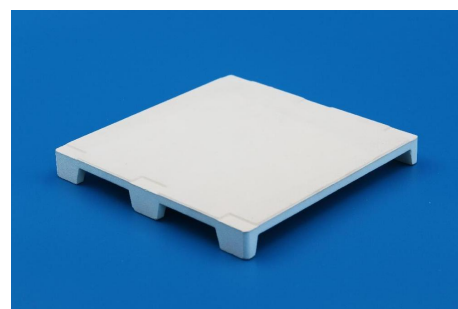
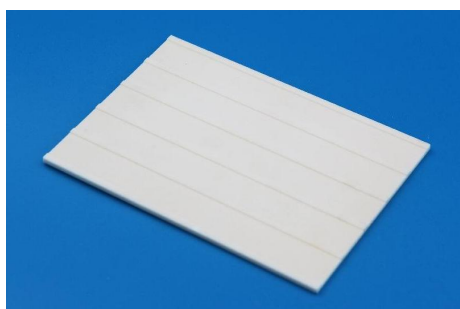
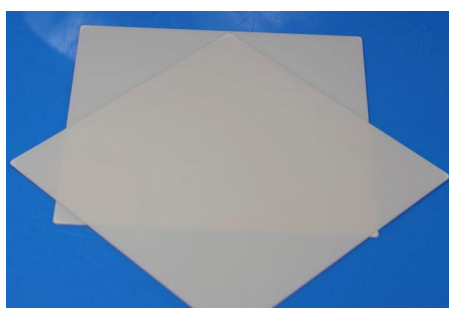
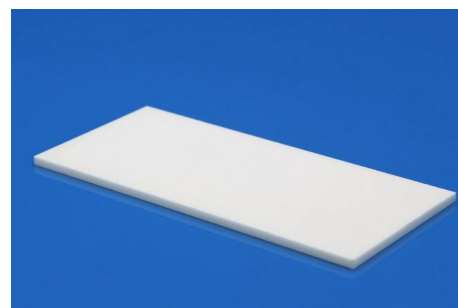
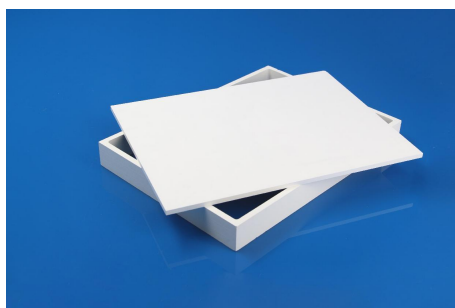
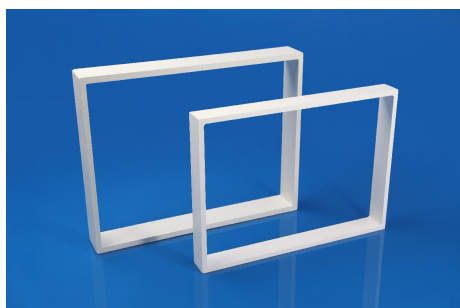
Properties	A-997 Aluminum Oxide	HBN Boron Nitride	AN-170 Aluminum Nitride
Color	Ivory	White	Dark Gray
Porosity Vol	0-10%	25%	0
Main Content	99.7%	99.7%	95%
Bulk Density (g/cm ³)	3.9	1.6	3.3
Bending Strength (MPa)	320-340	18	382.7
Coefficient Linear Thermal Expansion (x10 ⁻⁶ /°C)	7.6	1.5	2.805
Max Using Temperature (°C)	1600	2100	1850

■ Regular 99% Alumina Ceramic Setter Plate Size (Customized sizes are available)

Item No.	Material	Dimension (WxL)	Regular Thickness (T)	Max. Service Temperature (°C)
A993570	99% Alumina	35x70	1/1.5/2.5/3.5/5	1700
A995272	99% Alumina	52x72	1/1.5/2.5/3.5/5	1700
A9957130	99% Alumina	57x130	1/1.5/2.5/3.5/5	1700
A996070	99% Alumina	60x70	1/1.5/2.5/3.5/5	1700
A9960130	99% Alumina	60x130	1/1.5/2.5/3.5/5	1700
A9967146	99% Alumina	67x146	1/1.5/2.5/3.5/5	1700
A9970X2	99% Alumina	70x70	1/1.5/2.5/3.5/5	1700
A997080	99% Alumina	70x80	1/1.5/2.5/3.5/5	1700
A9971X2	99% Alumina	71x71	1/1.5/2.5/3.5/5	1700
A9982X2	99% Alumina	82x82	1/1.5/2.5/3.5/5	1700
A9983120	99% Alumina	83x120	1/1.5/2.5/3.5/5	1700
A9987170	99% Alumina	87x170	1/1.5/2.5/3.5/5	1700
A99100X2	99% Alumina	100x100	1.5/2.5/3/3.5/5/8	1700
A99100110	99% Alumina	100x110	1.5/2.5/3/3.5/5/8	1700
A99100120	99% Alumina	100x120	1.5/2.5/3/3.5/5/8	1700
A99100150	99% Alumina	100x150	1.5/2.5/3/3.5/5/8	1700
A99100170	99% Alumina	100x170	1.5/2.5/3/3.5/5/8	1700
A99100200	99% Alumina	100x200	1.5/2.5/3/3.5/5/8	1700
A99115125	99% Alumina	115x125	1.5/2.5/3/3.5/5/8	1700
A99120167	99% Alumina	120x167	1.5/2.5/3/3.5/5/8	1700
A99120160	99% Alumina	120x160	1.5/2.5/3/3.5/5/8	1700
A99135150	99% Alumina	135x150	1.5/2.5/3/3.5/5/8	1700
A99150X2	99% Alumina	150x150	1.5/2.5/3/3.5/5/8	1700

■ Application

- Ceramic Injection molding (CIM) For Ceramics Sintering
- Metal Injection Molding (MIM) For SUS Sintering
- Sintering electronic components such as Low Temperature Co-fired Ceramics (LTCC), MLCC, PTC chip resistor capacitors
- Piezoelectric Ceramic Transducer (Pzt) Sintering
- Solid Oxide Fuel Cell (SOFC) Sintering
- 5N Ceramic powder Sintering /Calcined
- Nitride Ceramics Sintering





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