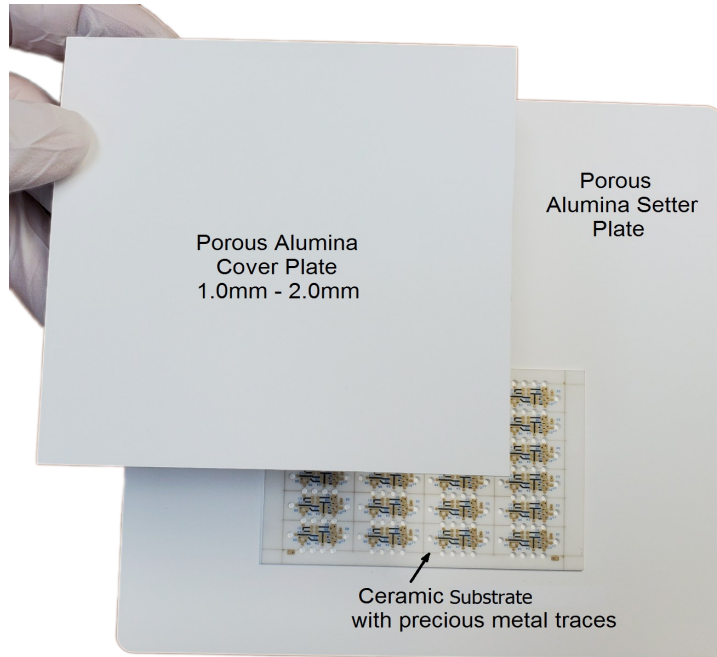




C12 Advanced Technologies

C12 POROUS ALUMINA PLATE Product PLT-AL995-POR1



C12 Porous Alumina Cover Plates make ideal lightweight cover or setter plates for debinding and sintering green ceramic tapes, Low Temperature Co-fired Ceramics (LTCC), electronic substrates with precious metal thickfilms, Metal Injection Molded (MIM) components, dental ceramics, sensor membranes, and 3D printed components. In addition to keeping parts flat and distortion-free, C12 Porous Alumina Plates provide a smooth, non-stick porous surface that prevents cracking and “setter drag”. C12 Porous Alumina Cover Plates are highly planar, and have a porosity of about 38% which permits gasses that evolve during sintering to pass easily through the plate. Composed of high purity (99.5%) aluminum oxide, C12 Porous Alumina Cover Plates will not stain contact surfaces. C12 Porous Alumina Cover Plates are available with a gross density of approx. 2.65 g/cm³ and thickness ranging from 1mm to 2mm. C12 Porous Alumina Cover Plates can be used in conjunction with C12 Separator Powder Sheets (SPS) to help prevent sticking and damaging ceramic substrates with precious metal thick films (LTCC, sensors, etc.)

Advantages and Applications

- Prevents sticking, cracking and “setter drag” problems.
- Highly planar, dust-free, particle-free surface.
- Plates can be easily cut to size with laser or waterjet.
- Manufactured by tape casting process, homogeneous particle and pore distribution.
- Remains electrically insulating at high temperatures.