

High Purity Kiln Furniture: Cover Plates & Liners

ENrG offers high purity, porous cover plates and liners demanded by SOFC component manufacturers. Cover plates and liners are used during the flat firing of green ceramic plates for the manufacture of SOFC and other fuel cell electrolyte substrates. Available in a variety of compositions, porosities, and geometries, the cover plate serves as a weight during firing to reduce camber, warping or bowing while being gas permeable.

High purity liner plates protect critical SOFC components to avoid impurities from kiln furniture during sensitive organic burnout and sintering or flat firing. ENrG products will improve your component processing capabilities.

Standard Alumina and 3Y Zirconia plates come in 150 x 150 mm and 240 x 240 mm sizes, and 8Y Zirconia is available in 150 x 150 mm only. ENrG can produce products with customized specifications to meet your exact requirements.

- Porosity: 40% nominal
- Area: To 240 mm x 240 mm
- Thickness: 0.65 mm
- Temperatures: up to 1500° C

BENEFITS:

No Contamination
High Strength
Multiple-use firing cycles

Low camber
Custom sizes available



For more information contact:
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Porous Cover Plates and Liners			
PRODUCT NUMBER	MATERIAL	FIRED SIZE (L x W mm)*	THICKNESS (mm)*
AP150-65	Alumina	150 x 150	0.65
AP240-65	Alumina	240 x 240	0.65
3ZP150-65	3YSZ	150 x 150	0.65
3ZP240-65	3YSZ	240 x 240	0.65
8ZP150-65	8YSZ	150 x 150	0.65

*Please inquire for custom sizes YSZ = Yttria Stabilized Zirconia

Dense Substrates

Standard 3YSZ and 8YSZ formulations are available in two diameter disks. ENrG can produce products with customized specifications to meet your exact requirements.

- **Density:** > 95%
- **Thickness:** 250 μ m

Dense Substrates			
PRODUCT NUMBER	MATERIAL	FIRED SIZE (Diameter)*	THICKNESS (μ m)*
3ZD25-250	3YSZ	25 mm	250
3ZD56D-250	3YSZ	56 mm	250
8ZD25-250	8YSZ	25 mm	250
8ZD56D-250	8YSZ	56 mm	250

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