



# MATERIALS FUEL CELLS

- Anode Powders ..... G 08

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# Anode Powders

## NICKEL BASED ANODE POWDERS

Our anode materials range from the conventional compositions of NiO/Yttrium-stabilized Zirconia compositions to NiO composites with Gadolinium or Samarium doped Ceria. These anode formulations are optimized to create highly catalytic active anode layers. Other powders have been tailored to provide highly conductive current collection layers that provide stable gas diffusion during operation.

- Applications range from tape casting, extrusion, or roll compaction.
- Anode powders can quickly be processed into inks for screen printing of the anode electrode.
- Optimized particle sizes to control the pore structure of the fired material creating structures that are strong with high performance.
- The use of pre-formulated anode powder mixtures saves processing time and assures batch-to-batch reproducibility.



P/N	PRODUCT NAME	FORMULATION	SURFACE AREA	PSD (d50)	QUANTITIES
131101	NiGDC-P	60% NiO 40% GDC-10 by wt	4 - 8 m <sup>2</sup> /g	-	150 g 500 g 1 kg 5 kg
131201	NiSDC-P	60% NiO 40% SDC-20 by wt	4 - 8 m <sup>2</sup> /g	-	
131301	NiYSZ-P	66% NiO 34% YSZ-8 by wt	4 - 8 m <sup>2</sup> /g	-	
132301	NiYSZ TC Grade	60% NiO 40% YSZ-8 by wt	1 - 4 m <sup>2</sup> /g	-	
312010	NiO Fine Grade	NiO	2 - 5 m <sup>2</sup> /g	0.5 - 1.5 μm	
312011	NiO Standard Grade	NiO	< 1 m <sup>2</sup> /g	12 - 22 μm	



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