



MATERIALS FUEL CELLS

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- Inks G 09

Inks

We offer contact inks for both the anode and cathode electrodes of SOFCs. To achieve quality results it is very important to have good contact between the electrode surface and the current collector. Applying a thin layer of ink (LSM or LSCF for the cathode and Nickel for the anode) over your electrode will help to ensure high quality reproducible results.

- We have the ability to make material in larger quantities upon request.
- Custom formulations and/or physical specification changes are available.



CATHODE INKS

P/N	PRODUCT NAME	FORMULATION	SOLIDS CONTENT	VISCOSITY (at 10/s)	QUANTITIES
232101	LSM20-I	$(\text{La}_{0.80}\text{Sr}_{0.20})_{0.95}\text{MnO}_{3-x}$	62 - 72%	15 - 40 Pa.s	100 g 500 g 1 kg 5 kg
232103	LSMYSZ-I	50 wt% $(\text{La}_{0.80}\text{Sr}_{0.20})\text{MnO}_{3-x}$ 50 wt% $(\text{Y}_2\text{O}_3)_{0.08}(\text{ZrO}_2)_{0.92}$	60 - 70%	15 - 40 Pa.s	
232201	LSCF-I	$(\text{La}_{0.60}\text{Sr}_{0.40})(\text{Co}_{0.20}\text{Fe}_{0.80})\text{O}_{3-x}$	62 - 72%	15 - 40 Pa.s	
232202	LSCFGDC-I	50 wt% $(\text{La}_{0.60}\text{Sr}_{0.40})(\text{Co}_{0.20}\text{Fe}_{0.80})\text{O}_{3-x}$ 50 wt% $(\text{Ce}_{0.9}\text{Gd}_{0.1})\text{O}_{1.95}$	65 - 75%	15 - 40 Pa.s	
311006	VEH Ink Vehicle	Terpineol based	-	-	

This terpineol based ink vehicle is excellent for creating ceramic inks and is used in our own fabrication processes. You can also adjust the viscosity of your current inks by gradually adding this ink vehicle until you get the right consistency for your application.

ANODE INKS

Our Nickel ink is an excellent contact paste for SOFC testing, and is especially good for enhancing the electrical contact on the anode side of a cell during fuel cell testing. The Nickel ink can also be used as a reference electrode.



P/N	PRODUCT NAME	FORMULATION	SOLIDS CONTENT	QUANTITIES
231001	Nickel Ink Ni-I	-	75-80% Ni by weight	50 g
321004	Nickel YSZ Ink NIYSZ-I	66% NiO 34% YSZ8 by weight	73-77% by weight	100 g 500 g 1 kg 5 kg

PRECIOUS METAL INKS

We offer three different precious metal inks to assist in attaching current collector meshes to both anode and electrolyte supported cells. All precious metal inks should be used sparingly to ensure gas flow to the electrodes.

- Silver ink is best used for low temperature applications.
- Both gold and platinum work well at higher temperature testing.
- Nickel paste is an effective anode current collector.



P/N	PRODUCT NAME	SOLIDS CONTENT	QUANTITIES
233001	Gold Ink AU-I	Minimum 70% Au by weight	10 g
233002	Platinum Ink PT-I	Minimum 70% Pt by weight	10 g
321201	Silver Ink AG-I	Minimum 70% Ag by weight	10 g



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