



AMPERGY®

Screen printing pastes for solid oxide fuel cells

- Quality and performance advantages due to the combination of powder and paste production
- Binder systems: according to customer specifications or developed by us
- Customizable solutions: viscosity, solid content, particle size, powder BET and chemistry according to customer requirements
- Exactly specified paste properties enable defined sinter shrinkage settings to match your system
- Mixed pastes (e.g. LSCF/GCO) can be offered in different, homogeneously mixed ratios

Powder	Powder type	Typical applications
LSM30	$\text{La}_{0.65} \text{Sr}_{0.30} \text{Mn}_{1.0} \text{O}_3$	• SOFC Cathode
LSM20	$\text{La}_{0.75} \text{Sr}_{0.20} \text{Mn}_{1.0} \text{O}_3$	• SOFC Cathode
LSCF	$\text{La}_{0.60} \text{Sr}_{0.40} \text{Co}_{0.20} \text{Fe}_{0.80} \text{O}_3$	• SOFC Cathode • Also for SOEC mode
LSCF/GCO	$\text{La}_{0.60} \text{Sr}_{0.40} \text{Co}_{0.20} \text{Fe}_{0.80} \text{O}_3 / \text{Gd}_{0.x} \text{Ce}_{1-0.x} \text{O}_2$	• SOFC Cathode • Also for SOEC mode
LSCM	$\text{La}_{0.80} \text{Sr}_{0.20} \text{Co}_{0.10} \text{Mn}_{0.90} \text{O}_3$	• Contact layer SOFC Cathode
LSC	$\text{Mn}_{1.0} \text{Co}_{1.9} \text{Fe}_{0.1} \text{O}_4$	• As protective coating on Cr containing interconnectors
MCF	$\text{Gd}_{0.1} \text{Ce}_{0.9} \text{O}_2$	• SOFC Cathode and Anode
10GCO	$\text{Gd}_{0.2} \text{Ce}_{0.8} \text{O}_2$	• SOFC Cathode and Anode
20GCO	$\text{Gd}_{0.4} \text{Ce}_{0.6} \text{O}_2$	• SOFC Cathode and Anode
40GCO	NiO	• SOFC Anode



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