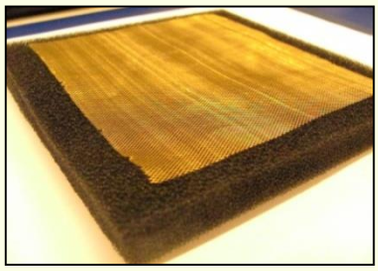
Fiaxell
SOFC Technologies™

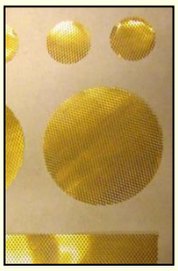
Components for
Solid Oxide Fuel Cell development

Gold M_Grid™

for lab tests reliability and actual cell performances

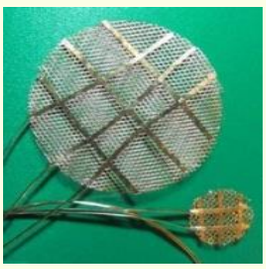
delivered as raw material,





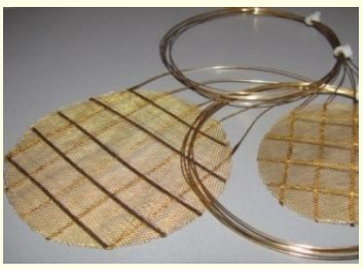
Material: gold 99.99 %; mesh opening: 0.9 x 1.4 mm; M_Grid thickness: 0.08 mm; flat rolled for improved electrical contact; disc, rectangle or any shape are cut on customer's request

or customized on customer's request

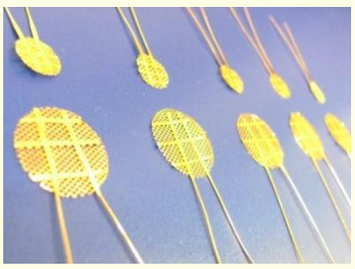


Germany, D25 and D60 mm and 0.5 mm gold wire

USA, D8 mm with flat rolled 0.25 mm gold wire



Germany, D70 and D60 with 0.5 mm gold wires , up to 6 A per wire

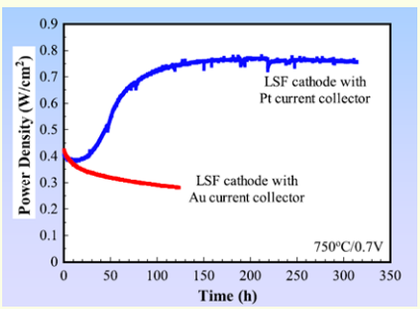


Australia, D30 with two 0.5 mm gold wires

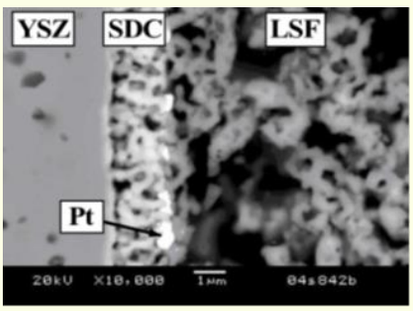
Customized gold M_Grid™ are manufactured for **intensive use** and every day new cell mounting. Robustness is achieved with double layer grid welded together with flattened transversal gold wires. Contrary to commercial woven mesh that unravels and tears on the first test, gold **M_Grid™ can be used hundreds of times**.

Why gold M_Grid™?

Gold does not interact with the SOFC air electrodes and gives **the actual cathode performances** contrary to silver or platinum (see graph below by Steve Simner et. al.) that act as a catalyst and **artificially improve the results**.



Pt (or Au) mesh contacted to the cathode with Pt (or Au) paste (verified with 3+ tests). Steve Simner et. al (Page 16-19 of PNNL Cathode Development- SECA CTP Review 2005)



PtO_x migration to SDC-LSF interface can be observed, platinum acts as a catalyst, contrary to gold which is inert and does not interact with the cathode material.

www.fiaxell.com **PSE-A Science Park** **CH - 1015 Lausanne**
Switzerland **info@fiaxell.com** **tel: +41 78 677 56 05**