

Platinum M_Grid™

For high operating temperature and wet electrochemistry

At high temperature (>900°C) and for long periods of use (>100h), the ideal cathode current collector, which is known as the gold M_Grid™, can stick or even melt on the electrodes. For this reason, Fiaxell recommends the use of **platinum M_Grid™** under these test conditions. **Platinum M_Grid™** is also an ideal material for room temperature wet electro-chemistry.

Platinum M_Grid™ specifications:

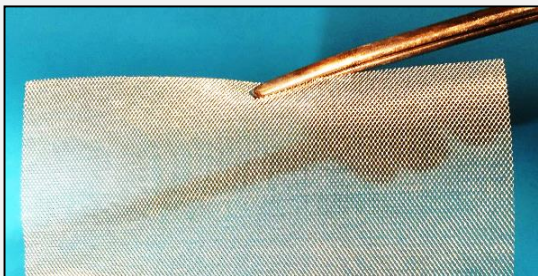
- Material: platinum 99.95 % purity
- M_Grid™: expanded platinum sheet with a fine micro-structure (mesh opening of 0.9 x 1.4 mm and 0.08 mm in thickness; flat rolled for improved electrical contact)
- M_Grid™ is calendered which allows for very low contact resistance compared to a woven mesh
- Robust structure for wet electro-chemistry



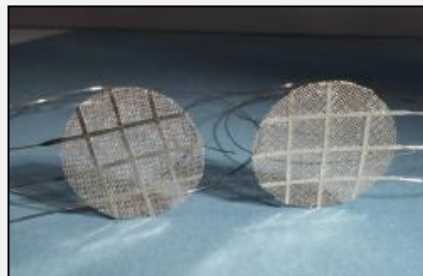
With elevated melting point (1768 °C), **platinum M_Grid™** can be used with SOFC at high temperature (>900°C) and long periods of time (>100h)

Delivered as raw material or manufactured on request

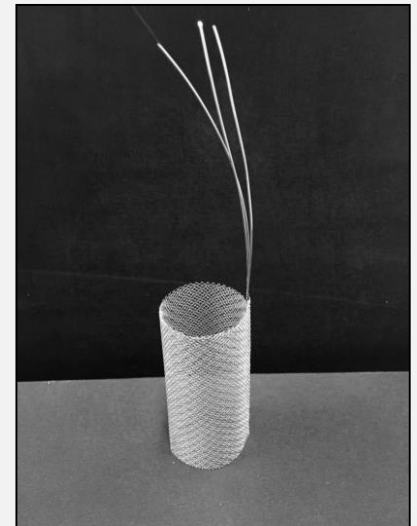
From the rolls, **platinum M_Grid™** is supplied as disc, rectangle or any shape cut to customer's request. Long lasting electrode current collector are obtained with a double M_Grid™ layer reinforced with lateral flattened and welded platinum wires that improve the flexibility and robustness. Contrary to woven mesh made with thousands of very fine wires, platinum M_Grid™ is **one body** structure which prevents **unraveling and fraying**.



Raw material: platinum 99.99 %; mesh opening: 0.9 x 1.4 mm; M_Grid thickness: 0.08 mm; one body structure contrary to woven mesh that often frays



Platinum M_Grid™ of diameter 36 mm for 10 cm² surface area electrodes. Lateral flattened Pt wires are welded for robustness, flexibility and long lasting



Platinum basket for wet electrochemistry with double layer of **M_Grid™**. Delivered with a taper rod to periodically re-shape it

Our **gold and platinum M_Grid™**, distributed all around the world are known to be extremely robust, reliable and lasting for years with proper use. Other noble metals **M_Grid™** are available on request.