



Disposable **Screen-Printed Platinum electrodes**. Suitable for working with microvolumes (ref. 550 and ref. 550BT) or by dipping them in solution (ref. C550). Electrodes screen-printed with high (refs. 550 and C550) and low (ref. 550BT) temperature curing inks which may have different properties depending on the application. These references are ideal for decentralized assays or to develop specific (bio)sensors, as well as electrosynthesis and compounds characterization. Useful for undergraduate lab to avoid tedious polishing of solid electrodes.

*Ceramic substrate:* L33 x W10 x H0.5 mm

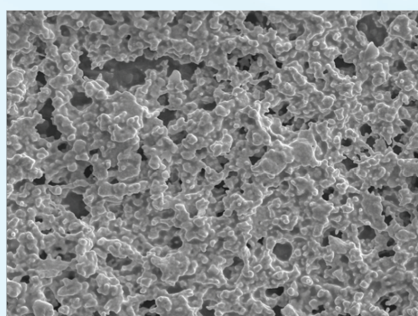
*Electric contacts:* Silver

The electrochemical cell consists on:

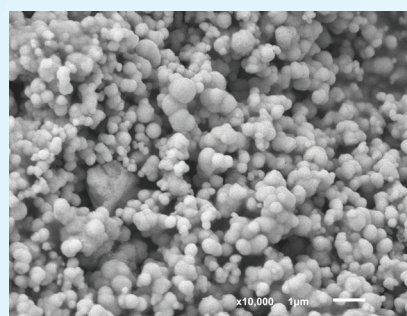
*Working electrode:* Platinum (4 mm diameter) high or low temperature curing ink.

*Auxiliary electrode:* Platinum high or low temperature curing ink.

*Reference electrode:* Silver



Scanning Electron Microscopy image of the platinum working electrode surface (ref. 550 and ref. C550).

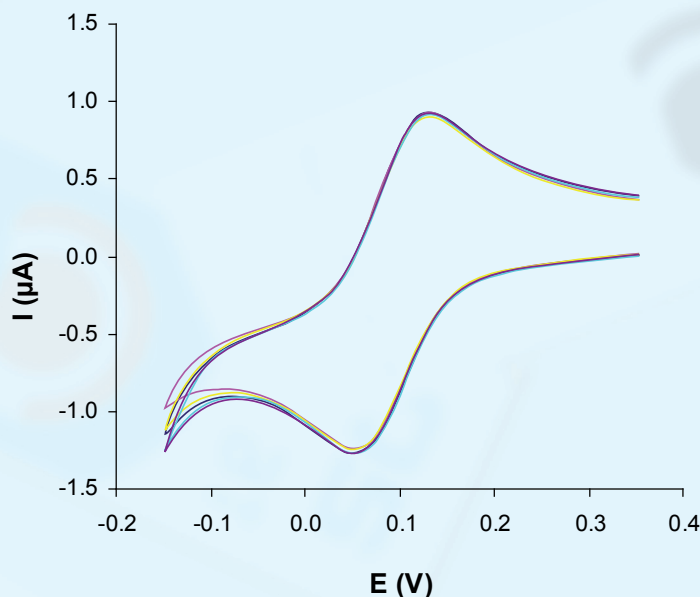


Scanning Electron Microscopy image of the platinum low temperature curing ink working electrode surface (ref. 550BT).

**Screen-Printed Platinum Electrodes** are commercialised in 75 units packs. They should be stored at room temperature, protected from light in a dry place.

## Electrochemical behaviour and electroanalytical performance of SPPEs (ref. 550) for the $K_3[Fe(CN)_6]$ redox system

**DropSens** Screen-Printed Platinum Electrodes exhibit a high electrochemical activity and good repeatability. An example is observed for the  $K_3[Fe(CN)_6]$  electrochemical process with 5 different ref. 550; RSD = 2.6%.



*Cyclic voltammograms of  $1 \cdot 10^{-4}$  M  $K_3[Fe(CN)_6]$  in 0.1 M KCl electrolyte solution at a scan rate of 50 mV/s.  $n = 5$  (ref. 550)*

Also, specific **connectors** that act as an interface between the screen-printed electrode and any potentiostat (refs. DSC, CAC) and other accessories are available at **DropSens**.

### Related products



DSC



CAC



FLWCL



CELL



STAT400



STAT8000

Full Catalogue



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