

## Ordered Mesoporous Carbon modified Screen-Printed Carbon Electrodes

Refs. 110MC  
X110MC

Ordered Mesoporous Carbon  
modified Screen-Printed  
Carbon electrode  
Ref. 110MC



Ordered Mesoporous  
Carbon modified  
Dual Screen-Printed  
Carbon electrode  
Ref. X110MC



These disposable **Screen-Printed Carbon Electrodes (SPCEs)** modified with **Ordered Mesoporous Carbon (OMC)** are designed for the development of (bio)sensors with an enhanced electrochemical active area and enhanced electronic transfer properties.

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

*Electric contacts:* Silver

The electrochemical cell consists on:

*Working electrode(s):* Ordered Mesoporous Carbon / Carbon

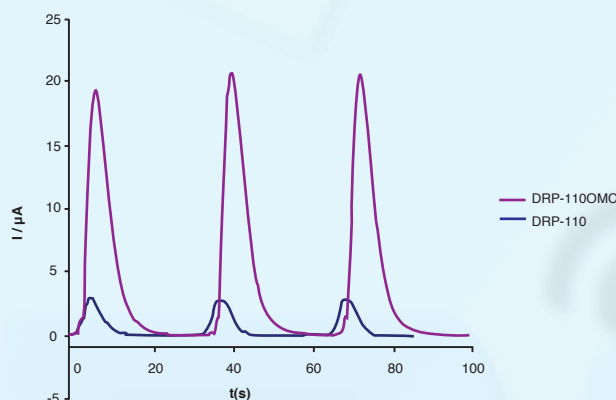
*Auxiliary electrode:* Carbon

*Reference electrode:* Silver

**MC SPCEs** are commercialised in 50 units packs. Store at room temperature, protected from light in a dry place.

## Detection of $H_2O_2$ with Carbon Screen-Printed Electrodes (DRP-110) and Carbon Screen-Printed Electrodes modified with Ordered Mesoporous Carbon (DRP-110OMC)

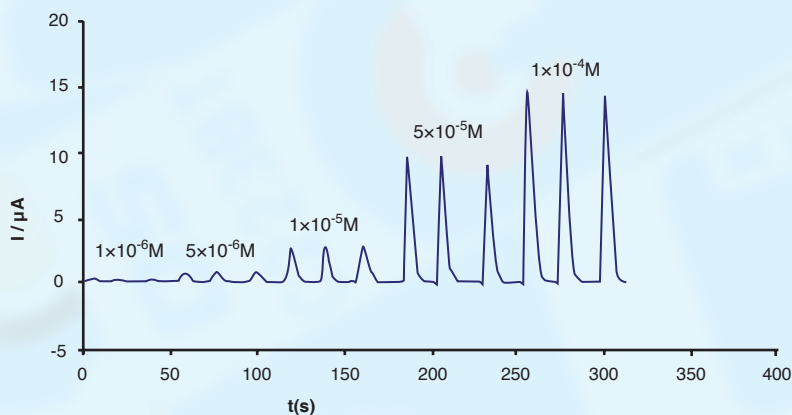
OMC SPCEs (pink CVs, ref. 110OMC) show better electron-transfer properties than conventional SPCEs (blue CVs, ref. 110).



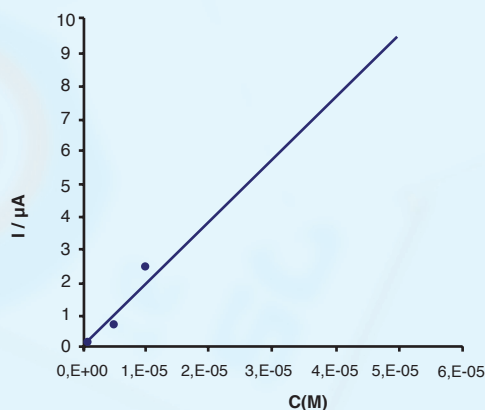
Amperometric detection of hydrogen peroxide in a flow injection analysis system with our easy to use flow cell (ref. FLWCL). The amperometric response of electrodes DRP-110OMC at  $1 \cdot 10^{-5} M H_2O_2$  and DRP-110 at  $5 \cdot 10^{-4} M H_2O_2$  is shown.  $E_{det} +0.3V$ ; Flow rate: 1.8 mL/min; Flow carrier: PBS 0.1M pH 7.2.

## Ordered Mesoporous Carbon modified Screen-Printed Electrodes

Refs. 1100MC  
X1100MC



Amperometric detection of hydrogen peroxide in a flow injection analysis system with our electrodes *DRP-1100MC*.  $E_{det} +0.3V$ ; Flow rate: 1.8 mL/min; Flow carrier: PBS 0.1M pH 7.2.



Calibration curve for hydrogen peroxide (in a 0.1 M phosphate buffer pH 7.2) from  $5 \cdot 10^{-7}$  M to  $5 \cdot 10^{-5}$  M.  $E_{det} +0.3 V$ ; Flow rate 1.8 mL/min; Flow carrier: PBS 0.1M pH 7.2.

Also, specific **connectors** that act as an interface between the screen-printed electrode and any potentiostat (ref. **DSC**, **CAC**) and other accessories are available at [DropSens](http://DropSens.com).

### Related products



DSC



CAC



FLWCL



CELL



STAT400



STAT8000

Full Catalogue



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