

SCREEN **PRINTED ELECTRODES**















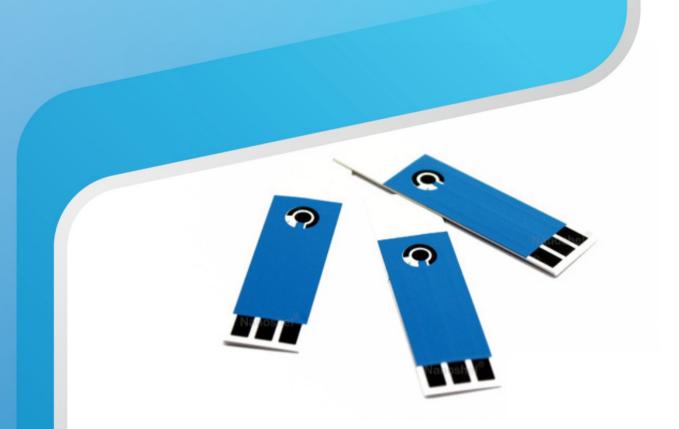
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Used As Economical Electrochemical Substrates

Screen printed electrodes (SPEs), which are used as economical electrochemical substrates, have gone through significant improvements over the past few decades with respect to both their format and their printing materials.

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Use In Miniaturized Systems

Screen-printed electrodes (SPEs) possessas major advantage over the traditional electrodes the possibility of use in miniaturized systems, whose applications demand portable devices.

Advantageous Material Properties,

Because of their advantageous material properties, such as disposability, simplicity, and rapid responses, SPEs have been successfully utilized for the rapid in situ analysis of environmental pollutants.

Electrical Sensors Are Sensitive

Screen-printed electrodes (SPEs) contribute greatly to this task; these electrical sensors are sensitive, selective and have low detection limits.

Spes Are Widely Used in Electrochemical Analyzing

SPEs are widely used in electrochemical analyzing the environmental pollutants.



















Stock No: NS6130-10-1169

Overall Dimension: 50 x 10mm

Thickness: 0.5mm

Thickness of Coated Material: 10 µm

Working Electrode: Graphite

Counter Electrode: Graphite

Reference Electrode: Ag/AgCI

ZENSOR SCREEN PRINTED



ElectrodesStock No: NS6130-10-1233

Diameter of WE: 2 mm Size of RE: 0.5 x 1 mm

Overall Dimension: 50 x 10mm

Thickness: 0.5mm

Thickness of Coated Material: 10 µm

Working Electrode: Graphite Counter Electrode: Graphite Reference Electrode: Ag/AgCI







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Stock No: NS6130-10-1234

Diameter of WE: 2 mm

Size of RE: 0.5 x 1 mm

Overall Dimension: 50 x 10mm

Thickness: 0.5mm

Thickness of Coated Material: 10 µm

Working Electrode: Graphite

Counter Electrode: Graphite

Reference Electrode: Ag/AgCI

CARBON SCREEN PRINTED ELECTRODES



Stock No: NS6130-10-1235

Diameter of WE: 2 mm

Size of RE: 0.5 x 1 mm

Overall Dimension: 50 x 10mm

Thickness: 0.5mm

Thickness of Coated Material: 10 µm

Working Electrode: Platinum Counter Electrode: Graphite

Reference Electrode: Ag/AgCI

CUSTOM SCREEN PRINTED ELECTRODES



ElectrodesStock No: NS6130-10-1236

Diameter of WE: 2 mm Size of RE: 0.5 x 1 mm

Overall Dimension: 50 x 10mm

Thickness: 0.5mm

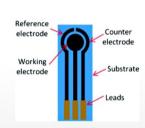
Thickness of Coated Material: 10 µm

Working Electrode: Gold

Counter Electrode: Graphite

Reference Electrode: Ag/AgCI





Stock No: NS6130-10-1237

Diameter of WE: 2 mm Size of RE: 0.5 x 1 mm

Overall Dimension: 50 x 10mm

Thickness: 0.5mm

Thickness of Coated Material: 10 µm

Working Electrode: Gold

Counter Electrode: Graphite

Reference Electrode : Ag/AgCI









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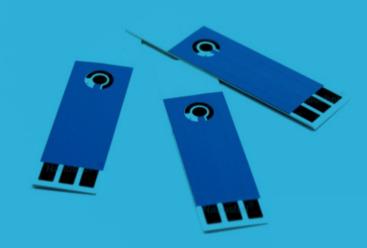




Properties of Screen printed **ELECTRODES**

The key properties of Screen printed electrodesare as follows:

- ✓ Electroanalytical properties
- ✓ Ultralight material
- ✓ High compression strengths
- ✓ High stiffness
- ✓ Better damping
- ✓ Thermal insulation















Applications of Screen printed ELECTRODES



- ✓ Very pristine surface for analytical electrochemistry
- ✓ An entire electrochemical cell can be printed into a very small area
- ✓ The same electrode can be used again and again with polishing
- ✓ The material in a glassy carbon electrode is predominately carbon.
- ✓ Homogeneous surface
- ✓ Disposable/semi-disposable.





✓ Low cost when manufactured in volume.











Characteristics of

Screen printed

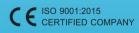
ELECTRODES

Screen printed electrodes possess uniquemicrostructural characteristics and physical properties that make them attractive for sensing, as well asother applications:

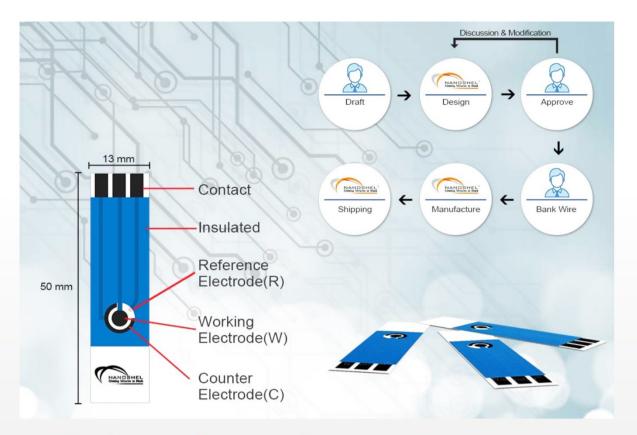
- ✓ Ultra-lightweight
- ✓ Disposable/ reusable
- ✓ Extendable applicability after preanodaization
- ✓ Neddless of polishing electrode
- ✓ Easy for chemical modification

- ✓ Low cost
- ✓ High stiffness-to-weight and strength-to-weight ratios
- ✓ Fire resistance and thermal insulating properties
- ✓ Metal foams are readily recycled









Ordering Information and Stock Availability

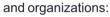
- Screen Printed Electrodes
- ✓ Stock No: NS6130-10-1169
- ✓ Zensor Screen Printed Electrodes
 - Stock No: NS6130-10-1233
- ✓ Gold Screen PrintedElectrodes
- ✓ Stock No : NS6130-10-1234
- ✓ Carbon Screen Printed Electrodes
 - Stock No: NS6130-10-1235

- ✓ Custom Screen Printed Electrodes
 - Stock No: NS6130-10-1236
- ✓ Screen Printed CarbonElectrode
- ✓ Stock No : NS6130-10-1237
- ✓ Stock Availability: Available
- ✓ Distribution: Global
- ✓ Packing Sizes: 1Piece, 2Piece,

5Piece, 10Piece, & Bulk Orders

Deals with

Our aluminium foams purchased by well established and spectacular reasearchcentres









Safety Recommendations

Download MSDS/SDS which are available

from the NanoshelWebsite at

https://www.nanoshel.com/sections/screen-printed-electrodes









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