SCREEN PRINTED ELECTRODES

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ISO 9001:2015 CERTIFIED COMPANY

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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.

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

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

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.

Spes Are Widely Used in Electrochemical Analyzing
SPEs are widely used in electrochemical analyzing the environmental pollutants.

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Technical Specification

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/AgCl

Electrodes
Stock 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/AgCl

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GOLD SCREEN PRINTED ELECTRODES

Stock No: NS6130-10-1234
Diameter of WE: 2 mm
Size of RE: 0.5 x 1 mm
Overall Dimension: 50 x 10 mm
Thickness: 0.5 mm
Thickness of Coated Material: 10 μm
Working Electrode: Graphite
Counter Electrode: Graphite
Reference Electrode: Ag/AgCl

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 10 mm
Thickness: 0.5 mm
Thickness of Coated Material: 10 μm
Working Electrode: Platinum
Counter Electrode: Graphite
Reference Electrode: Ag/AgCl

CUSTOM SCREEN PRINTED ELECTRODES

Electrodes
Stock No: NS6130-10-1236
Diameter of WE: 2 mm
Size of RE: 0.5 x 1 mm
Overall Dimension: 50 x 10 mm
Thickness: 0.5 mm
Thickness of Coated Material: 10 μm
Working Electrode: Gold
Counter Electrode: Graphite
Reference Electrode: Ag/AgCl

SCREEN PRINTED CARBON ELECTRODE

Stock No: NS6130-10-1237
Diameter of WE: 2 mm
Size of RE: 0.5 x 1 mm
Overall Dimension: 50 x 10 mm
Thickness: 0.5 mm
Thickness of Coated Material: 10 μm
Working Electrode: Gold
Counter Electrode: Graphite
Reference Electrode: Ag/AgCl

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Properties of Screen printed ELECTRODES

The key properties of Screen printed electrodes are 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 predominantly carbon.
- Homogeneous surface
- Disposable/semi-disposable.
- Low cost when manufactured in volume.

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Characteristics of Screen printed ELECTRODES

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

- Ultra-lightweight
- Disposable/reusable
- Extendable applicability after preanodaization
- Needleless 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 Printed Electrodes
   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 Carbon Electrode
   Stock No: NS6130-10-1237
✅ Stock Availability: Available
✅ Distribution: Global
✅ Packing Sizes: 1 Piece, 2 Piece,
   5 Piece, 10 Piece, & Bulk Orders

Deals with

Our aluminium foams purchased by well
established and spectacular reasearchcentres
and organizations:

Safety Recommendations

Download MSDS/SDS which are available
from the Nanoshel Website at
https://www.nanoshel.com/sections/screen-printed-electrodes

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