



E1B Series

Stationary Working Electrode Product Guide

Part # Style: AFE1BZZZXX

(ZZZ = disk outer diameter (016-030), XX = disk electrode material, e.g. AU = gold, PT = platinum, GC = glassy carbon, etc.)

Warnings



Caution:

Do not attempt to use this electrode as a rotating disk electrode.



Thermal Stability:

Use electrode from 10°C to 25°C. Extreme temperatures damage electrode seals.



Chemical Compatibility:

The electrode shroud material is made of polychlorotrifluoroethylene (PCTFE); it is incompatible with some chlorinated solvents and tetrahydrofuran.

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Description

The E1B Series disk electrode is small, easy-to-use, and designed for use as the working electrode in a routine three electrode (e.g. voltammetry) experiment. The E1B Series disk electrode is intended for use in general applications.

The lower end of the shaft is protected by a shroud made from chlorotrifluoroethylene (PCTFE). This fluoropolymer is resistant to most solvents. It can exhibit some incompatibility with select chlorinated solvents, such as chloroform and carbon tetrachloride.

The electrode is ideally used with the Low Volume Cell Cap Kit System. The electrode is shipped with a rubber O-ring around the shaft for easy cell height adjustment. This O-ring must be removed if used with the Pine Low Volume Cell Cap Kit Series products.

Leak Testing

The shroud is tightly sealed around the circumference of the working electrode material. The electrode is guaranteed to be leak-free at the time of shipment (each electrode is shipped with a copy of the factory leak test results). Leak testing is performed at ambient (room) temperature. The electrode should only be used at temperatures from 10°C to 25°C. Exposing the electrode to temperatures outside this range may create a leak between the electrode material and the shroud.

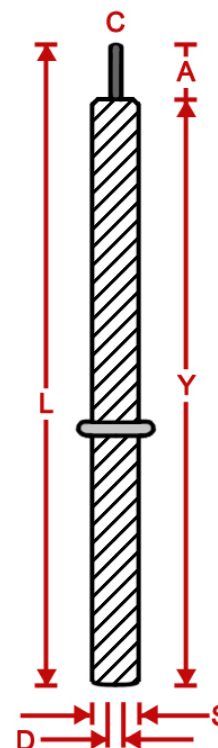
Photograph



Maintenance

After using the electrode, clean it with distilled water and replace the protective cover to prevent the electrode surface from being scratched. Periodically, the electrode surface will need to be polished. An electrode polishing kit with various alumina slurries and polishing pads is available (sold separately).

Diagram



- adjustable O-ring
- connection pin

Disk Diameter (D): 1.6 mm (Au,Pt)
3.0 mm (GC)

Shroud Diameter (S): 6.4 mm

Overall Length (L): 82 mm

Shaft Length (Y): 75 mm

Contact Pin Length (A): 7.0 mm