

Round Bottom Cell

KEC06

Round Bottom Cell

This borosilicate glass cell can be used for any general-purpose electrochemical measurements. This is ideal for half-cell study.



Product details

This round-bottomed cell is composed of borosilicate glass and can withstand aggressive conditions at ambient as well as elevated temperature (up to 200°C). The available volume is 100mL with four neck joints. Among the four neck joints, one neck is B19, and the other three are B14. A glass stopper is included. It is recommended to use a little silicone grease to ensure an airtight seal.

Application note

This four-port cell is mainly used for electrode assembly inside a glovebox, followed by electrochemical measurements outside the glovebox.

- The three-electrode cell set-up for half-cell configuration generally consists of either the cathode or an anode material of interest as a working electrode, platinum metal as a counter electrode, along with a reference electrode. The fourth port can

be used for attaching other accessories such as a gas-purging tube, temperature sensor.

- The two-electrode cell set-up uses one working electrode. The reference and counter electrode are connected together.
- The testing materials are typically mounted on Al or Cu-foil substrate. The foil/substrate is immersed inside the electrolyte solution with the help of the substrate holder/working electrode holder (KWEH01 or KWEH02B).

Cleaning instruction

Cleanliness is vital for most electrochemical measurements as contaminants can lead to poorly reproducible results. Cleaning this gas-tight cell is quite easy because of its simple design. The electrolyte inside the cell should be cleaned thoroughly with repeated washing with a suitable solvent and DI water. After cleaning, it should be dried and stored in a dry place.

Included Parts



A glass stopper to block the B-19 neck

Optional accessories

Reference electrodes

Different kinds of Kanopy reference electrodes are available. One can choose any of these according to the reaction conditions, solution pH, aqueous, non-aqueous, and temperature.

- KRE01** Silver-Silver Chloride (Ag/AgCl) electrode
- KRE03** Mercury-Mercurous Chloride (Hg/Hg₂Cl₂, saturated KCl) or Saturated Calomel Electrode (SCE)
- KRE04** Mercury-Mercuric oxide (Hg/HgO)
- KRE06** Silver-Silver ion non-aqueous electrode

Platinum electrodes (working and auxiliary)

- KWE01** Platinum wire electrode
- KCE01** Platinum mesh electrode
- KCE02** Platinum coil electrode
- KWE03** Platinum foil electrode

Disc type electrodes (working)

- KDE01, KDE02** Glassy carbon disc electrode
- KDE03, KDE04** Gold disc electrode
- KDE05, KDE06** Platinum disc electrode

Working electrode holder

KWEH01 Working electrode holder, screw type



KWEH02B Working electrode holder, clip type



KEC10A
Banana Cable Set



KEC10B
Banana Connector Pin



KA01 (Red), KA02 (Black)
Alligator Clip



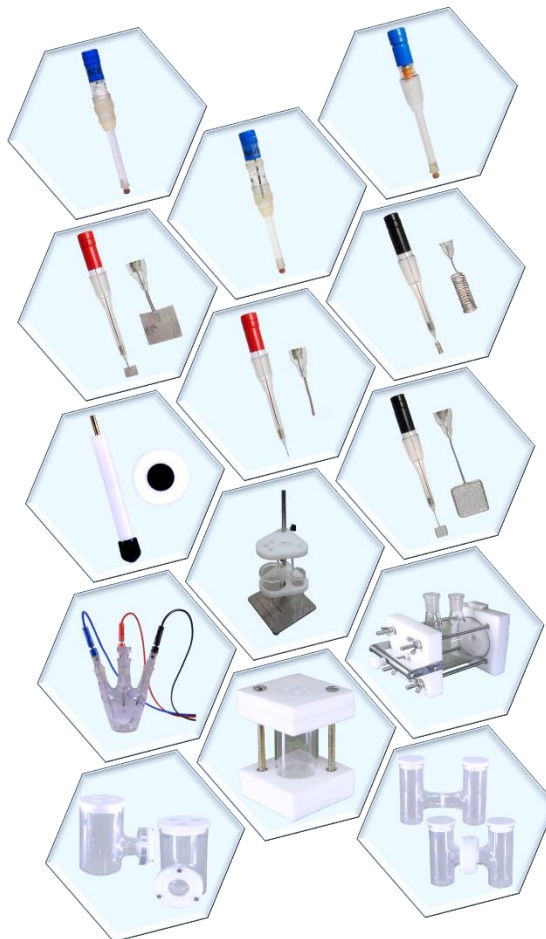
KA17 Cu Foil
Thickness: 0.1mm
Width: 300mm
Purity: >99.50%



KA19 Al Foil
Thickness: 16µm
Width: 200mm
Purity: >99.45%



KA28
Thermometer



Kanopy Techno Solutions

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Product Information Leaflet



Round Bottom cell
Product ID: KEC06

Contact us



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