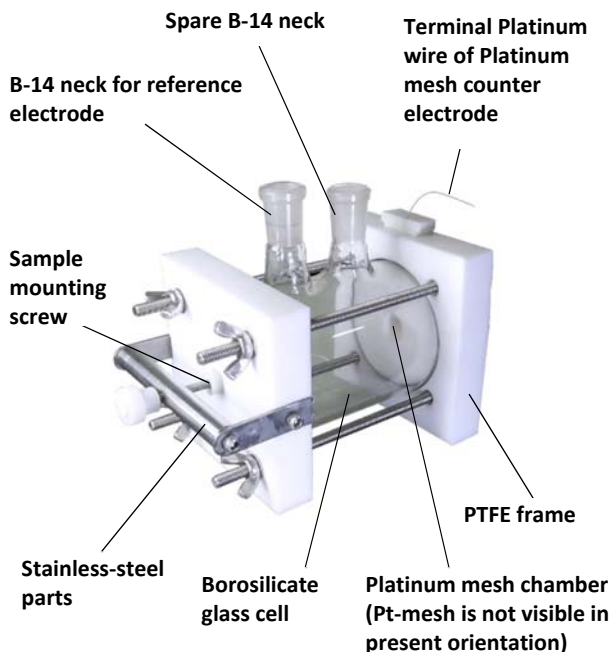


## Flat Corrosion Cell

KEC08

### Flat Corrosion Cell (250mL)

The Flat corrosion cell is suitable for corrosion measurements of a wide variety of flat samples in a liquid environment. It contains high-quality Polytetrafluoroethylene (PTFE), borosilicate, and stainless-steel materials that can withstand at elevated temperature (up to 100°C).



### Product details

The sample is installed onto PTFE sample support outside the glass cell and is connected with electrolyte through the area of 1cm<sup>2</sup> hole. Sample mounting screws provided on the frame ensure the rigid mounting of the sample without electrolyte leakage through the hole. The PTFE frame of the other side of the glass-cell contains platinum-mesh as a counter electrode (included parts). Kanopy reference electrodes (not included, can be ordered separately) will fit in the B-14

neck joint adjacent to the working electrode. This setup comes with extra neck joints that can be used either for gas-purging or temperature sensor or simply kept closed with a glass stopper when unused.

### Specification

<b>Working Volume</b>	A borosilicate glass cell of 250mL volume; customized volume is available.
<b>Working electrode port</b>	1cm <sup>2</sup> bore onto the PTFE frame, which exposes the working electrode/sample to the electrolyte solution.
<b>Working electrode dimensions</b>	Minimum 12mm X 12mm.
<b>Sample mounting screw</b>	A threaded rod to attach the coupon tightly on the working electrode port.
<b>Reference electrode port</b>	SGJ B14, compatible with all Kanopy reference electrodes.
<b>Counter electrode port</b>	A small bore onto the PTFE frame containing Pt-mesh counter electrode of mesh size 10mmx10mm.
<b>Spare port</b>	SGJ B14; can be used for other purposes such as gas purging or temperature sensing.

### Included parts



Platinum mesh counter electrode, with mesh size 10mmx10mm, that can be easily fitted within the PTFE frame as a leak-proof assembly.



A single 10mmX200mm Copper strip of 0.1mm thick, for making an electrical connection of the working electrode with the working electrode lead.



A pair of Glass stoppers to seal the B-14 necks when not in use.

### Optional accessories

#### Reference electrodes

Different kinds of Kanopy reference electrodes are available. One can choose any of these according to the reaction conditions such as acidic, basic, or neutral and operating temperature range.

**KRE01** Silver-Silver Chloride (Ag/AgCl) electrode

**KRE03** Mercury-Mercurous Chloride (Hg/Hg<sub>2</sub>Cl<sub>2</sub>, saturated KCl) or Saturated Calomel Electrode (SCE)

**KRE04** Mercury-Mercuric oxide (Hg/HgO)



**KEC10A**  
Banana Cable Set



**KEC10B**  
Banana Connector Pin



**KA01 (Red),KA02 (Black)**  
Alligator Clip



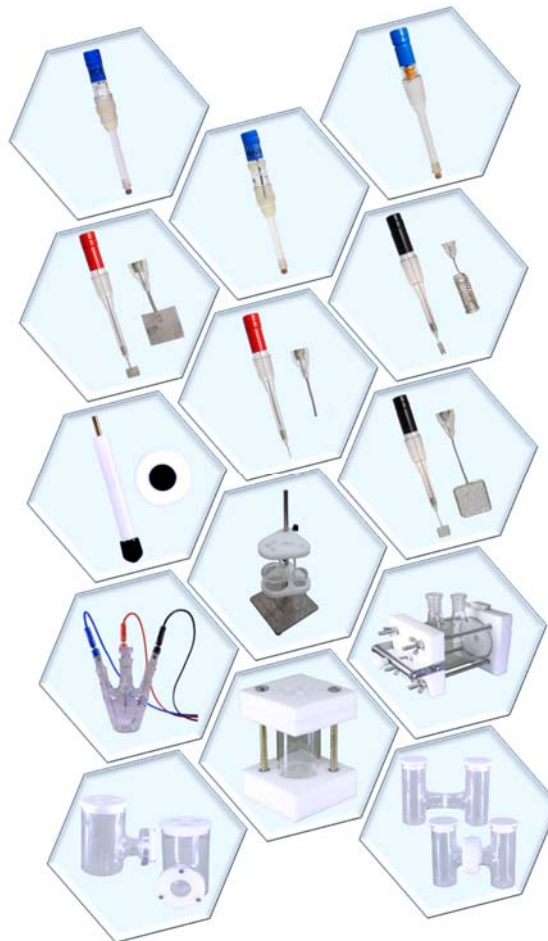
**KA17 Cu Foil**  
**Thickness:** 0.1mm  
**Width:** 300mm  
**Purity:** >99.50%



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



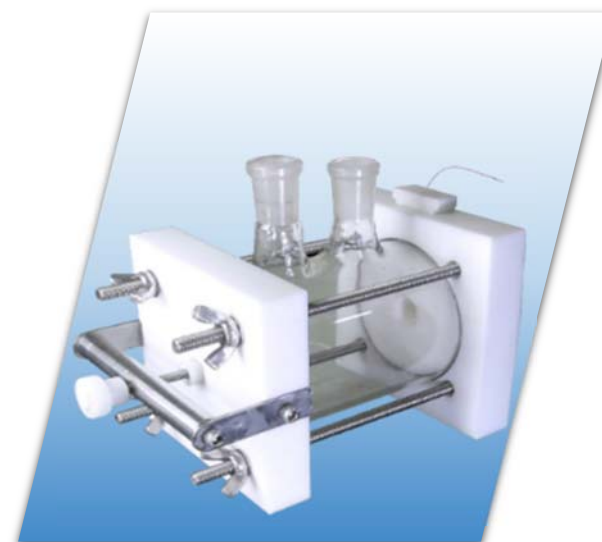
**KA28**  
**Thermometer**



**Kanopy Techno Solutions**

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## Product Information Leaflet



**Flat corrosion cell (250mL)**  
**Product ID: KEC08**

### Contact us



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