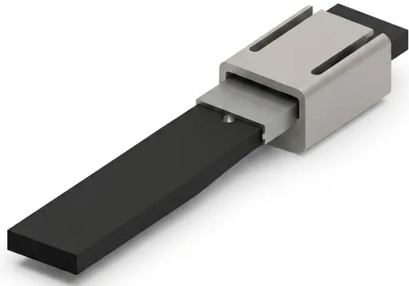


Custom Ptfе Electrochemical Sample Clamp For Graphite Sheets And Reticulated Vitreous Carbon

Item Number: PL-DJ45



Introduction

Secure thick graphite sheets and reticulated vitreous carbon electrodes with this custom electrochemical sample clamp, designed from high purity PTFE to provide highly stable electrical contact and outstanding chemical resistance in all demanding laboratory research and testing applications today.

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Application	Description	Key Benefit
Battery & Fuel Cell Testing	Securing thick graphite plates and gas diffusion layer (GDL) sheets in aqueous and organic electrolyte cells.	Minimizes contact resistance and ensures accurate charge-discharge curves.
Electrocatalysis Characterization	Clamping porous Reticulated Vitreous Carbon (RVC) electrodes for water splitting and CO2 reduction studies.	Prevents crushing of the fragile RVC structure while maintaining a stable current path.
Corrosion & Metallurgy Studies	Evaluating the corrosion resistance of thick alloy plates and metal sheets under highly acidic or alkaline conditions.	Protects the support shaft from aggressive corrosion, ensuring test reproducibility.
Wastewater Treatment Research	Holding dimensionally stable anodes (DSA) and carbon-based composite electrodes for electrochemical oxidation.	Resists degradation from powerful oxidizing agents and chlorine evolution.
Supercapacitor Development	Mounting thick carbon felt, polymer composites, and porous aerogel sheet electrodes.	Delivers uniform electrical contact across the entire clamping interface.
Photoelectrochemistry	Positioning conductive glass (FTO/ITO) and thick semiconductor wafers in light-exposed cells.	Provides firm holding without cracking the delicate glass substrate.

Specification Parameter	Standard Configuration (PL-DJ45)	Customizable Options
Model Code	PL-DJ45	Custom variations available
Body Material	Virgin PTFE	PEEK / PFA
Contact Insert	Platinum (Pt ≥ 99.99%)	Gold (Au) / Titanium (Ti)
Clamping Thickness	0.1 mm to 6.0 mm	Up to 12.0 mm for thick RVC
Rod Diameter	Ø 6.0 mm	Ø 4.0 mm to Ø 10.0 mm
Rod Length	80 mm	50 mm to 250 mm
Jaw Width	10 mm	5 mm to 30 mm
Terminal Port	2 mm banana jack	4 mm jack / thread
Temperature Limit	-196°C to +250°C	Enhanced high-temp polymer options
Chemical Resistance	Full pH range (0 - 14)	Universal compatibility