

MultiPort Electrochemical Cell Kit



Cell Description

This MultiPort Cell Kit is based on a standard 1 liter glass reaction flask and is available with or without a water jacket. The cell top has three 24/40 standard taper female joints, three #7 glass thread ports and one SJ 28/15 female socket joint.

In the normal cell configuration, a 24/40 TFE adapter holds the cylindrical working electrode in the top's central hole. The graphite rod counter electrode fits a #7 port, and the gas dispersion tube uses a second 24/40. A glass bridge tube holds the reference electrode and goes through an adapter that mates to the ball joint.

Because this cell uses standard joints and fittings, it can easily be customized for specific applications.

Specifications

Dimensions

Volume 1.2 liter maximum
Approximately 1 L in normal use

Size (standard/jacketed) Approximately 15/21 cm diameter by 42/45 cm high including electrodes and adapters

Metal Specimen

Size Metal Cylinder
3/8" (0.95 cm) diameter by 1/2" (1.27 cm) length

Thread Size UNF 3-48 Tapped Hole

Commercial Part P/N 410 Series (available in a variety of metals)
Metal Samples Inc.
P.O. Box 8
Munford, AL 36268 USA
Phone: (256) 358-4202
Fax: (256) 358-4515
E-mail: msc@alspi.com

Counter Electrode

Type High Density Graphite Rod

Size 6 mm diameter by 25 cm length

Chemical Compatibility

Wetted Materials Pyrex, Teflon, nylon (can be replaced with Teflon)

Non-Wetted Materials Above, plus stainless steel and polypropylene

Parts List

Quantity	Description	Quantity	Description
1	Manual, Corrosion Cell	1	Graphite Rod, Counter Electrode
1	Corrosion Cell Bottom, Pyrex	1	Adapter, 24/40 to 8 mm Tube, Teflon
1	Corrosion Cell Top, Pyrex	1	Tube, Cylindrical Specimen Holder, Pyrex
1	Corrosion Cell Clamp, Metal	1	Rod, Cylindrical Specimen Holder, S.Steel
1	O-ring (TFE coated Silicone)	1	Compression Gasket, Teflon
1	Gas Dispersion Tube, Pyrex	1	Centering Washer, Polypropylene
1	Bridge tube, Pyrex	1	Standoff, Hex 8-32 x 1/2", S. Steel
1	Adapter, 15/28 to #7, Pyrex	1	Cylindrical Specimen, C1018 Mild Steel
1	Clamp, SJ 28, poly	4	#7 bushings (nylon w/o-ring)
5	24/40 plugs (polypropylene)	2	#7 plugs (nylon)
1	#11 bushing (nylon w/o-ring)		

