ElectroChem, Inc.

Lab Supplies

The quality of equipment used in laboratories is key to success in research. ElectroChem has chosen equipment that meets or exceeds its high standards of quality and operation - and now offers them to our customers.

EC-LS-001	**Caliper**	The caliper is an important tool for providing an exact measurement. Knowing the thickness of an MEA or gasket component will ensure that the assembled fuel cell provides the right compression to the MEA.
EC-LS-002	**Digital Stopwatch**	The digital stopwatch is capable of measuring accurate time of operation. For example – coupled with a gas bubble flow meter, it will greatly assist in achieving an accurate measurement of gas flow rate.
EC-LS-003	**Magnifier**	The magnifier is useful when making connections or soldering small parts together.Read fine print and inspect precision parts with these lightweight magnifiers that can be worn over prescription and safety glasses.
EC-LS-004	**Cotton Gloves**	Cotton gloves allows to handle delicate components (such as electrode, membrane, MEA) by hands without the contamination of the components.
EC-LS-005	**Tweezers (Laboratory Grade)**	Contamination of an electrode and/or membrane surface by the use of hands can decrease the performance of the component. Usage of tweezers is recommended to handle the electrode and PEM membrane without contaminating the active catalyst surface and conductive membrane surface
EC-LS-006	**Magnetic Stirring Hot Plate**	The magnetic stirring hot plate provides the capability of carrying homogeneous solution (such as a membrane pre-treatment solution bath) and nonhomogeneous solution (such as an electrode solution) at controlled uniform temperature
EC-LS-007	**Multimeter and Current Probe (Set)**	The combination of a multimeter and a current probe proves researchers a powerful tool to measure the cell voltage (individual single cell to the entire stack) as well as the current of the fuel cell.
EC-LS-008	**Precision Balane Scale**	The Precision Balance Scale gives high accuracy (± 0.002g) measurement in weight and the changes in weight.
EC-LS-009	**2 Channel Timer with Alarm**	The 2 channel timer with alarm allows the researchers effectively to carry multiple experiments with the help of timing. From an ISO 17025 A2LA accredited calibration laboratory and traceable to NIST Calibration Certificate
EC-LS-010	**Torque Wrench**	Uniform compression in fuel cell hardware (single/stack) is very important for quality performance. This special torque wrench with enlarged torque settings helps to easily provide the same torque to each bolt that makes the uniform compression.Monitor torque as its being applied. Tool has a memory pointer to show maximum torque reached.
EC-LS-011	**Ultrasonic Cleaner**	The Ultrasonic cleaner is often used to clean the surface of solid material and porous media as a pre-treatment process.
EC-LS-012	**Wire and Thickness Gauge**	Wire and Thickness Gauge (Inches): Tapered gauge range is 1/64" to 3/16" in 1/64" increments. Wire gauge is Birmingham Standard. It has sizes numbered from 19 to 36 plus 1/16" and 1/8". The reverse side gives equivalents in 0.001". Thickness leaves are sizes 0.002", 0.003", 0.004", 0.006", 0.008", 0.010", 0.012", 0.015", and 1/16"
EC-LS-013	**Gas Bubble Flow Meter (Set of Two)**	Gas Bubble Flow Meter – Set of Two: A gas bubble flow meter is an economical way to measure both dry gas and wet gas (gas with water vapor or water droplet) for most of the gas coming out at the exit of the fuel cell. A stop watch will be required to measure the time which is used to calculate the flow rate based on the amount of gas measured in the gas bubble flow meter.
EC-2500	**Microscope**	Material surface structure and properties are important for fuel cell R&D. The EC-2500 microscope is able to provide closer observation of material and material surface coating for better understanding of them in research and product development in a simple way; EC-2500 microscope also provides convenience and efficiency in product development to do a quick comparison and evaluation of product quality.

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