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Battery Show North America 2024
Booth #222

Marposs Demonstrates Leak Testing of Li-Ion Sealed Batteries with Leak B-Tracer System

Detroit, Mich., Oct. 7, 2024 – In booth #222 at The Battery Show in Detroit, Marposs -- a leader in measurement, inspection and test technologies -- is demonstrating its flexible, semi-automatic Leak B-Tracer system for leak testing of sealed batteries on prototypes and pilot lines, off-line testing and SPC analysis, and re-check of a scrap batch from test in mass production. This patented leak test process is based on vaporizing and extracting volatile organic compounds from the cells should there be a leak, and then tracing and quantifying their presence in the vacuum chamber.

The present generation of Li-ion batteries includes electrolytes that can contain flammable elements, which could generate toxic compounds or compromise the correct functioning of the cells if exposed to ambient humidity. Perfect sealing of the cells guarantees that moisture cannot enter and that electrolytes cannot leak out of the battery cells. The Leak B-Tracer, which can be easily retooled to fit a variety of batteries, can provide 100% testing of the battery cells during different stages of the production process: immediately after electrolyte filling and sealing, after formation, or after degassing and subsequent final sealing, up to the end-of-line testing.

During operation, the cells are placed in the vacuum chamber during the test. In the presence of a housing leak, partial vaporization of the electrolyte solvent occurs, and it exits from the cell towards the vacuum chamber. The test principle is based on the possibility of measuring the extent of the leak by tracing these electrolyte vapors with a quadrupole mass spectrometer.

Benefits of these testing systems include:

- Suited for any type of cell (button, cylindrical, prismatic or pouch), through an easy retooling system of the vacuum chamber
- Applicable to any stage of the process, including after electrolyte filling and sealing,
- Appropriate for different types of electrolytes
- Fast cycle time
- Gross leak test ability prevents contamination

The Leak B-Tracer is equipped with Marposs' "DV system" solution, which consists of a mass spectrometer connected to an industrial Marposs Merlin Plus and Marposs "SOLT" software for the management of the measure cycles and for the local storage of the test data.

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The IPC can also be used for local data storage and statistics. For each part tested, the following data can be stored on the local storage of the IPC:

- Test date and time
- Result (good or reject)
- Actual test pressure value
- Leak value
- Test parameters (test pressure and reject limit)

For more information on Marposs' Leak B-Tracer Automatic Leak Testing System for Sealed Batteries, visit Leak testing for Electrolyte Tracing - Leak B-TRACER - products | Marposs or contact Marposs Corp. at (248) 370-0404 or marposs@us.marposs.com

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Marposs will demonstrate its Leak B-Tracer system for leak testing of sealed batteries using electrolyte tracing at The Battery Show 2024.

About Marposs, www.marposs.com

Marposs, founded in 1952, has distinguished itself by supplying advanced solutions that improve quality and productivity while reducing manufacturing costs through technologies such as process control, machine tool monitoring and precision gauging, as well as leak testing and automated assembly and control lines. A long-time key supplier to the automotive and aerospace markets, Marposs' growth strategy includes the acquisition of high-quality companies that offer innovative products complementary to its portfolio, enabling penetration into new market sectors. The Group currently has over 3700 employees worldwide and is present in 25 countries through over 80 offices.

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