



News Letter

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HITACHI FE-SEM SU 8230

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NEW INSTRUMENT, NEW CAPABILITIES

Carbon and Polymer materials are becoming the new advanced materials research trend, so why not hop on board! MAS now has the ultra-high resolution FE-SEM SU 8230 which can meet the range of customer specific needs for fields such as; semiconductors, electronics, catalysts, biotechnology, and pharmaceuticals.

Advantages for Materials Engineers, Polymer, and Nano Composite Developers:

- Low Voltage Elemental Microanalysis
- Increased probe Current & Beam Stability
- Complements The Inherent Brightness
- High Spatial Resolution, High Sensitivity, High Speed X-Ray Detection

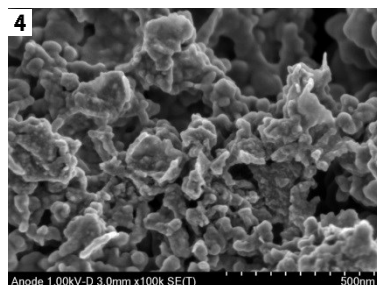
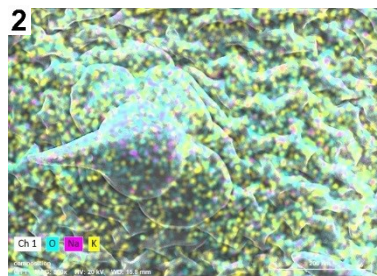
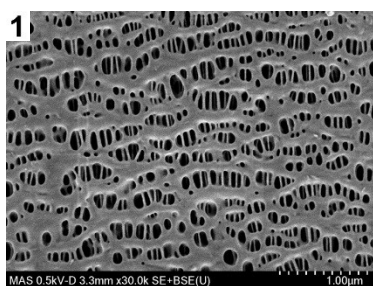


IMAGE DESCRIPTIONS

1. Celgard Li-ion Battery Separator
 Magnification: 30,000X Celgard separator is a trilayer polypropylene-polyethylene-polypropylene membrane. It is non-conductive and is very sensitive to electron beam damage. With the SU 8230 FESEM, the Celgard separator is clearly observed without charging or sample deformation at an acceleration voltage of 500V.
2. Tree leaf surface EDX mapping condition:
 20kV O – Blue, Na – Pink, K Yellow
3. Multiwall carbon nanotube (MWCT)
 magnification: 250,000X
4. Lithium-ion battery negative electrode:
 Magnification: 100,000X Landing voltage: 1kV