

EVO® MA and LS VPSE G3 Detector

Introduction

The ZEISS Variable Pressure Secondary Electron (VPSE) detector is now available in its third generation design for all EVO® series microscopes. With detection efficiency approaching the standard set by the Everhart Thornley detector, the VPSE G3 detector provides the most effective imaging solution for true secondary electron imaging of non-conducting specimens currently available to the SEM community. Imaging can now be performed on the most challenging of non conductors using either air or water vapour. The VPSE G3 excels in two areas:

- Class leading imaging of non conductors
- Excellent imaging using water vapour

The ability to image using water vapour opens new imaging solutions for the most challenging of non conductors, high quality EDS analysis, and for wet specimen analysis.

Imaging solutions for

Materials Analysis

- Paper, fibres, textiles, forensic
- Pharmaceutical powders and tablets
- Museum work with microfossils

Life sciences

- Frozen plant structures using the EVO® coolstage
- Insect microstructures
- Dental / bone

Semiconductors

- PCB
- Packaged devices

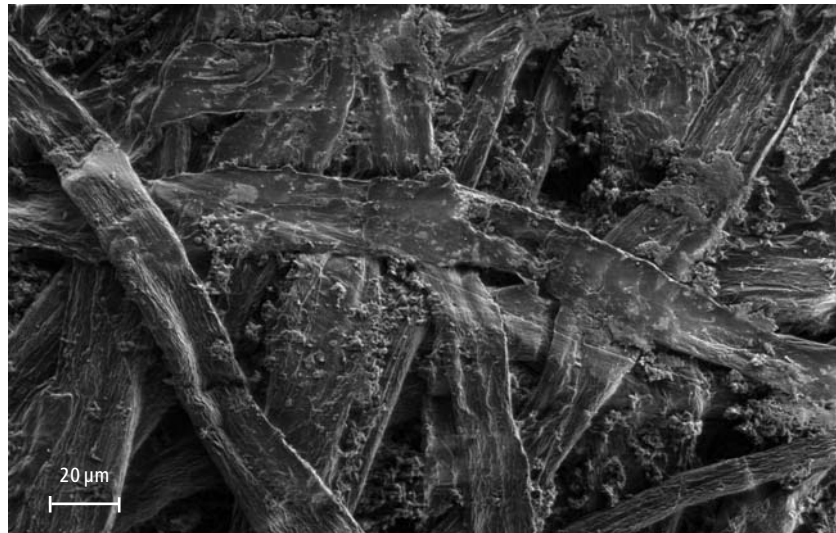
Instrumentation

Following Carl Zeiss NTS's philosophy to protect our customers' investments, the EVO® MA and LS VPSE G3 detector is compatible with the installed base of EVO® SEMs.

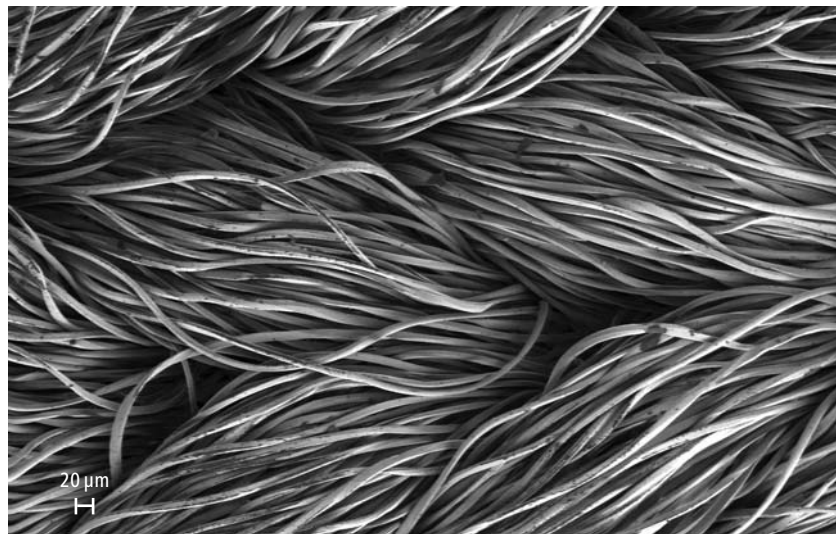


We make it visible.

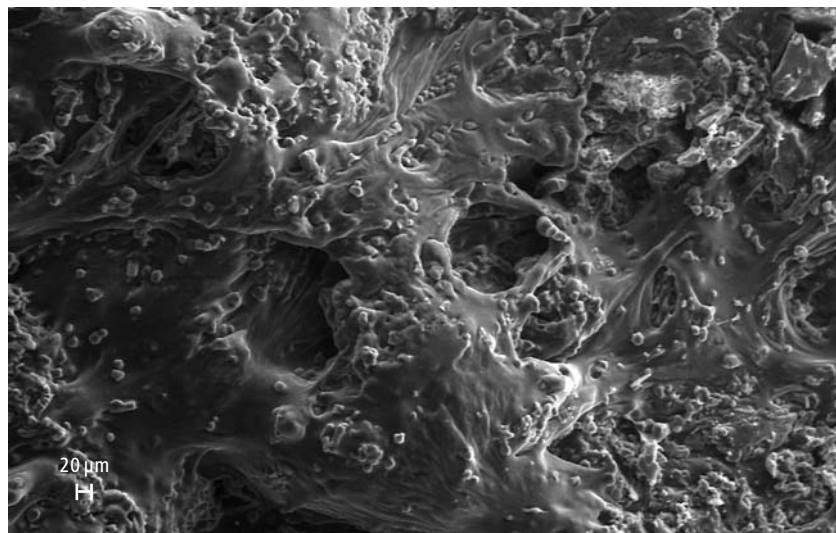
*Fig. 1:
Copy Paper
3 kV, 70 Pa water
Uncoated*



*Fig. 2:
Fabric
3 kV, 20 Pa air
Uncoated*



*Fig. 3:
Jelly Bean
20 kV, 60 Pa air
Uncoated*



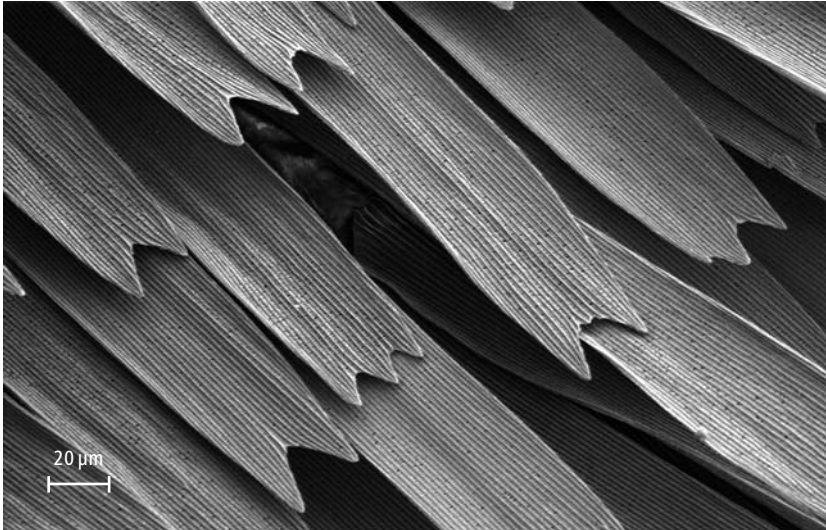


Fig. 4:
Butterfly wing
3 kV, 20 Pa air
Uncoated

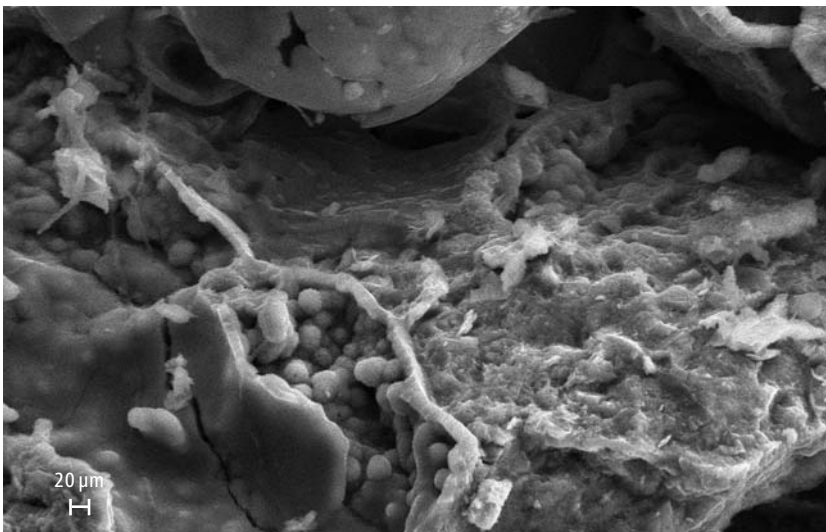


Fig. 5:
Corrosion product
20 kV, 65 Pa water
Uncoated

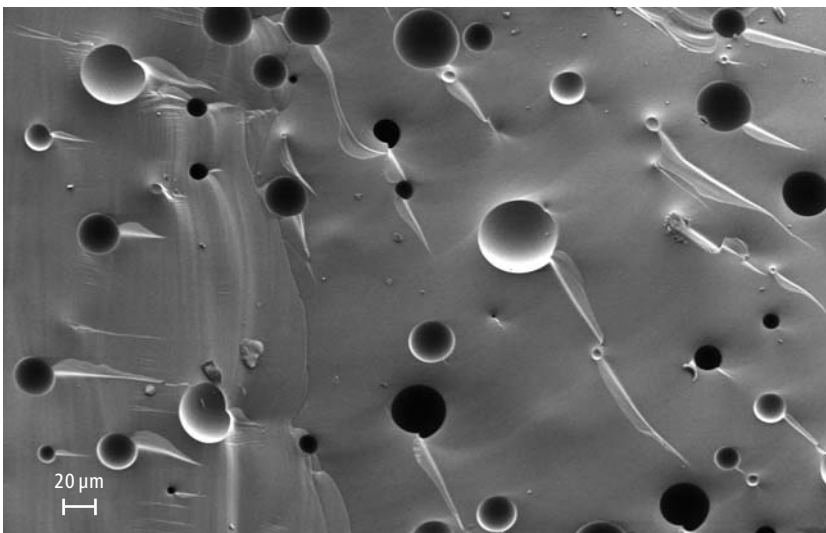


Fig. 6:
Ceramic fracture
3 kV, 20 Pa air
Uncoated

EVO® Series



Maximum Information – Maximum Insight

More than 160 years of experience in optics has laid the foundation for pioneering electron and ion beam microscopes from Carl Zeiss. Superior integration of imaging and analytical capabilities provides information beyond resolution, unlocking the best kept secrets of your sample.

With a broad technology portfolio Carl Zeiss provides instruments both tailored to your requirements and adaptable to your evolving needs. With our highly versatile application solutions we endeavor to be your partner of choice.

Superbly equipped, regional demo centers provide you with access to our applications expertise developed in collaboration with world-class partners in industry and academia. Global customer support is provided by the Carl Zeiss Group together with an extensive network of authorized dealers.

Our mission at all times: Maximum Information – Maximum Insight.

EVO® Series					
Applications		Conductors	Non Conductors	Hydrated Specimens	Wet Dynamic Processes
Materials Analysis	MA	✓	✓	Future Assured	Future Assured
Life Sciences	LS	✓	✓	✓	✓



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