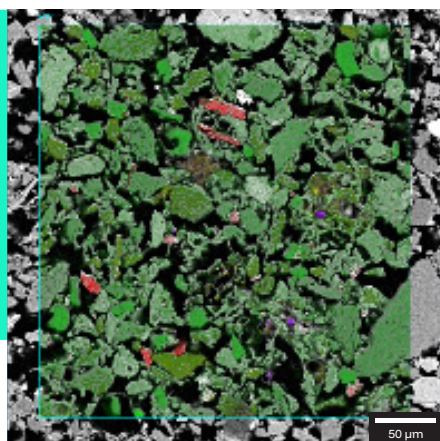


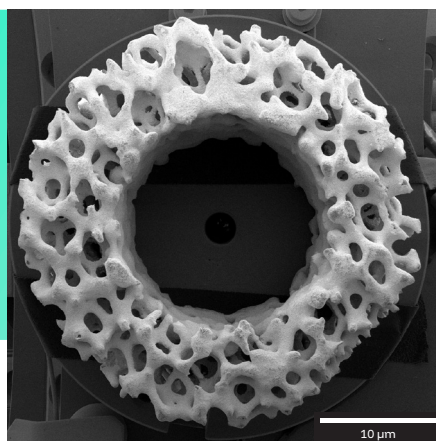
Tescan VEGA

for Materials Science

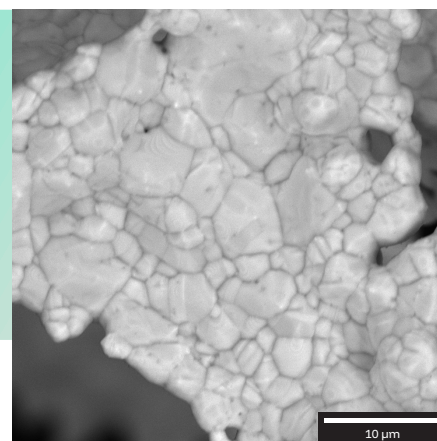
Analytical SEM for routine materials characterization, research and quality control applications at the micron scale



↑ Distribution of Si (green) and Ti (red) in ancient plaster identified by Essence™ EDS in the live scanning window of the VEGA SEM



↑ Ceramic foam overview image captured using the Wide-Field Mode™



↑ Image of grain structure in the metal foam captured using the BSE detector

Key Benefits

Easily acquire compositional data and directly correlate it to the SEM image with the overlay feature of Tescan's optional, fully integrated Essence™ EDS

Set-up beam parameters quickly for optimal imaging and analytical conditions using Tescan's In-Flight Beam Tracing™

Navigate effortlessly and precisely – at magnifications as low as 2x – with Tescan's unique Wide Field Optics™ mode, which eliminates the need for an additional optical camera

Move samples confidently and avoid collisions using Tescan's unique live 3D collision model which replicates the size and geometry of samples and detectors within the chamber interior

Customize the GUI to match a user's experience level and application for intuitive operation of Tescan's Essence™ microscope control software

Explore beam sensitive and charging samples quickly and easily with VEGA's standard SingleVac function

Reveal the finest topographic details from insulating, beam sensitive and outgassing samples in low vacuum by taking advantage of optional MultiVac which features the gaseous secondary electron detector (GSD) and additional water vapor atmosphere

Save cost and reduce your ecological footprint using Tescan's optional vacuum buffer that significantly reduces vacuum rotary pump run-time

Expand your analytical potential by configuring VEGA with your choice from a wide selection of optional, fully integrated detectors, such as CL, water-cooled BSE or RAMAN spectrometer

Free yourself from thinking about sample dimensions and number with VEGA's GM chamber which features 130 x 130 mm stage movement and enough space to accommodate samples with dimensions of 300 x 300 x 100 mm³

Leverage Tescan VEGA's analytical potential by having a high number of empty chamber ports available for future detector upgrades