

508 Coal™ Microspectrophotometer

Advanced Geological Analysis

The reflectance of vitrinite macerals is the most common indicator of organic maturation used by the energy industries. As the organic maturation, or rank, increases, the vitrinite changes and becomes more reflective. The reflectivity of vitrinite is in direct proportion to its rank and the amount of energy it can supply. This has been extensively modeled and test protocols have been developed both by ISO and ASTM.

The 508 Coal™ system was designed to measure vitrinite reflectance accurately, rapidly, and non-destructively. The 508 Coal™ system combines research quality petrographic microscopes with microspectrophotometers and a software package written specifically for petrographic analysis.

The 508 Coal™ system makes measurements per the ISO 7404-5 and ASTM D2798 standard test methods and presents the results in an industry standard format including histograms. The system can even be automated with the inclusion of a programmable stages and point counting.

The 508 Coal™ can also do much more. The 508 Coal™ can measure UV-visible-NIR range transmission, reflectance and even fluorescence microspectra of sub-micron samples. It can also do high resolution color imaging and sophisticated image analysis. The 508 Coal™ not only accomplishes today's standard tests but is future-proofed for tomorrow's new protocols.



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²Spectral range dependent on microscope optics and light source(s)