

Fast and Easy Vitrinite Coal Analysis With CRAIC Technologies New Geolmage™

Geolmage™ uses novel technology to measure vitrinite reflectance and quickly determine the thermal maturity of coal and coke.

SAN DIMAS, CA, US, February 16, 2023

/EINPresswire.com/ -- Coal is a vital source of energy.

[Geolmage™](#) is the newest Vitrinite Reflectance Measurement System from CRAIC Technologies and is designed to determine the grade of coal and coke by vitrinite reflectance per the ISO 7404-5 and ASTM D2798 standards. These procedures are used ensure that the coal blends used in energy generation and steel making are optimal and consistent from batch to batch. However, Geolmage™ does far more than that. It can also be run either manually or automatically or acquire high resolution color images of the reflectance and fluorescence of coal samples. It also features a point counting module as well as a number of sophisticated image analysis routines. Geolmage™ can also be used in conjunction with CRAIC's microspectrometers to also acquire reflectance and fluorescence spectra of the coal samples.



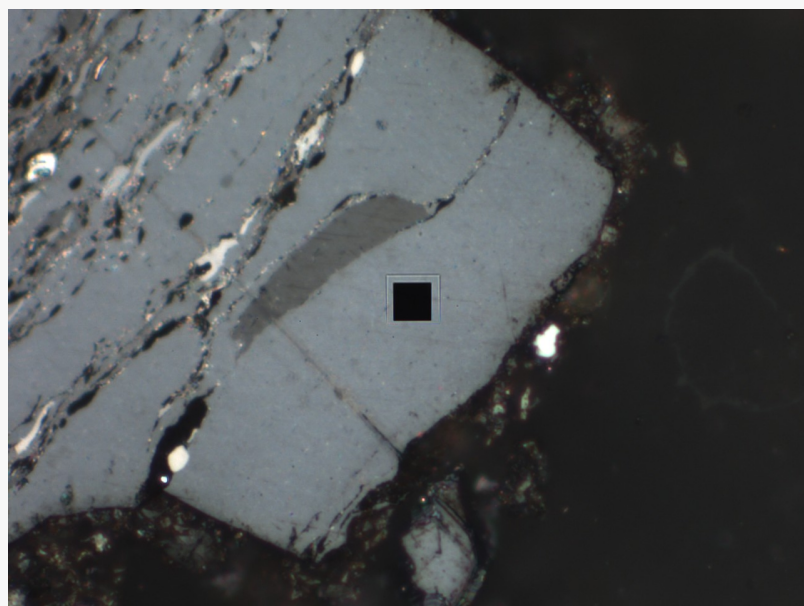
Geolmage system on petrographic microscope

Vitrinite is a maceral of coal and is comprised of various polymers, cellulose and lignin. Measuring the amount of light reflected by vitrinite macerals is a key test to determine the thermal maturity of the coal blend and its suitability for steel production. The procedure has been standardized by a number of international bodies including both ISO and ASTM. All of the standards require the use of a solution such as Geolmage™ to measure the intensity of light reflected from a microscopic area on the sample. The procedure is simple: Geolmage™ measures the amount of light reflected from coal samples, using a high resolution camera fitted to a petrographic microscope. Hundreds of points are measured on the sample and the results of the statistical analysis of the data are used to determine the amount of vitrinite in the coal blend, its thermal maturity and thus its energy content. As hundreds of measurements need to be done on each sample, this used to be a very time consuming process. Now, with Geolmage™,

hundreds of points can quickly measured to dramatically improve a throughput and accuracy. GeolImage™ can also be automated for even faster results.

GeolImage™ can also do more than just measure vitrinite reflectance. It can also be used for point counting to the fraction of different macerals in a coal sample. The system can also be used to capture high resolution digital images in full color of coal in both fluorescence and reflectance. This ability to perform multiple analytical techniques with a single instrument is a hallmark of CRAIC Technologies solutions.

For more information about GeolImage™ Vitrinite Reflectance Measurement System and vitrinite reflectance analysis, please visit www.microspectra.com.



Vitrinite coal being analyzed for thermal maturity

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