

AMA254

Mercury Analysis



LECO's AMA254 determines trace amounts of mercury in various materials—including coal, combustion residues, soils, biological samples, and other solid/liquid samples.

The AMA254 technique of direct combustion features a combustion/catalyst tube that decomposes the sample in an oxygen-rich environment and removes interfering elements. A gold amalgamator trap collects all mercury from the evolved gases and a dual-path length cuvette/spectrophotometer specifically determines mercury over a wide dynamic range.

With method approvals by the EPA and ASTM, the AMA254 offers a fast, cost-effective alternative to conventional CVAAS or ICP. This unique system combusts various matrices without sample pre-treatment or concentration steps—saving you valuable time. The instrument requires no hazardous chemicals, providing a mercury determination in approximately five minutes.

Features Include



Amalgamator

Traps all mercury vapor on a gold-plated ceramic tube; doses the mercury to the cuvette system through flash heating.

Cuvette System

Detection system based on a standard atomic absorption spectrophotometer at a specific wavelength (253.7 nm). Dual-path length cuvette expands the dynamic range from the ppb level to the ppm level.

Direct Combustion System

Nickel boats hold up to 500 mg of various liquid and solid samples. The oxygen-rich combustion tube is heated to 750°C.



Optional Autoloader

Rotating carousel holds up to 45 nickel sample boats; boats are automatically inserted into the combustion/catalyst tube.