

Semiautomatic calorimeter

Description/Parameters

Calorimeter AC600 (LECO) for determination of the calorific value of a sample by precisely measuring the heat released after combustion of the sample in a controlled environment. The heat released is proportional to the calorific value of the substance. Analysis times lower than 10 minutes per sample, without compromising accuracy.

Utilization/Services

Heat of combustion

Calorimeter provides fast and accurate calorific results for various organic materials including coal, coke, fuel, oils and waste materials. The gross calorific value of coal, a solid fossil hydrocarbon fuel material, is most often used when calculating the total calorific value for a quantity of coal for fuel value purposes, or when determining the classification rank of the coal material.

- Sample Type: A representative, uniform sample is required, 1 g weight (nominal).
- Standard Method: ASTM D5865.
- Calibration Sample: LECO 774-208 Benzoic Acid Pellets, or Benzoic acid pellets made from NIST 39j.
- Method Parameters: cotton ignition for solid dry samples or wire ignition and wet samples.

