



BOMB CALORIMETER

Bomb Calorimeter - ToronBC™ Series

A bomb calorimeter—also referred to as an oxygen bomb calorimeter—is an essential tool for measuring the calorific value or heat of combustion of various substances. By accurately capturing the energy released during combustion under high-pressure, oxygen-rich conditions, these instruments are critical for energy analysis, quality assurance, and R&D applications.

Bomb calorimeters are widely used across multiple industries, including:

1. Fuel and Energy - Analyzing the heat content and efficiency of coal, oil, gasoline, diesel, biofuels, and other combustibles.
2. Food Industry - Measuring the caloric value of food samples for nutrition labeling and regulatory compliance.
3. Chemical and Petrochemical - Assessing the energy characteristics of chemicals and process by-products.
4. Waste Management - Determining the energy potential of alternative fuels derived from waste.
5. Academic and Research Settings - Supporting thermodynamic experiments and material testing studies.

Torontech offers a comprehensive selection of advanced, budget-friendly bomb calorimeters tailored to the varied needs of laboratories, universities, production facilities, and industrial testing centers. Engineered for high accuracy, reliability, and user-friendly operation, our oxygen bomb calorimeters are suitable for both routine use and advanced analytical demands.

All Torontech models conform to international standards, including:

1. ASTM D5865 - Standard Test Method for Gross Calorific Value of Coal and Coke
2. ISO 1928 - Determination of Gross Calorific Value of Solid Mineral Fuels
3. DIN 51900 - Determination of Gross and Net Calorific Value for Solid and Liquid Fuels

Whether you're working with fossil fuels, biomass, food, or chemicals, Torontech bomb calorimeters deliver the precision and performance you need to ensure quality and make informed, data-driven decisions.



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