



Heat of Combustion



LT/CV-207000/M

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LT/MB-206000/M

ASTM D240
ASTM D2382 (obs.)
ASTM D3286 (obs.)
ASTM D4809
ASTM D5865
IP 12
ISO 1716

ASTM D240 - IP 12
Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter.

This test method covers the determination of the heat of combustion of liquid hydrocarbon fuels ranging in volatility from that of light distillates to that of residual fuels.

ASTM D4809 - ASTM D2382 (obs.)
Heat of Combustion of Liquid Hydrocarbon Fuels by Bomb Calorimeter (Precision Method).

This test method covers the determination of the heat of combustion of hydrocarbon fuels. It is designed specifically for use with aviation turbine fuels when the permissible difference between duplicate determinations is of the order of 0.2 %. It can be used for a wide range of volatile and nonvolatile materials where slightly greater differences in precision can be tolerated.

ASTM D5865 - ASTM D3286 (obs.)
Standard Test Method for Gross Calorific Value of Coal and Coke.

This test method pertains to the determination of the gross calorific value of coal and coke by either an adiabatic bomb calorimeter

ISO 1716
Reaction to Fire Test for Building Products.
This method covers the determination of the heat of combustion at constant volume in a bomb calorimeter.

LT/MB-206000/M
Mahler Bomb (Oxygen Bomb), manual instrument composed by:

- Structure fully made in stainless steel included the two electrodes
- Capacity 300 ml
- Cover with threaded displacing ring
- Gasket around the cover edge
- Automatic inlet valve
- Pin exhaust valve
- Tested at 210 bar

LT/CV-207000/M
Calorimeter Vessel, manual instrument composed by:

- Bench top instrument with metallic case structure painted with anti-acid products and double chamber insulation
- Tank with double jacket made in stainless steel 18/8, capacity 3 liters
- Handle for extraction
- 2 sectors polycarbonate cover with holes for the passing of stirrer
- Motor stirrer 100 rpm 24V with support
- Double pliers for thermometer
- Connection for Mahler bomb electrodes
- Vessel fitted with Ignition Device including:
 - Low voltage outlet
 - Start pushbutton
 - 24 V socket for motor stirrer
 - Ammeter

Power supply
• 220 or 115 Vac 50 Hz

LT/CV-207000-S/M
Calorimeter Vessel, without ignition device:

- Tank with double jacket made in stainless steel 18/8
- Capacity 3 litres
- Handle for extraction
- 2 sectors polycarbonate cover with holes for the passing of stirrer
- Blade stirrer
- Motor stirrer 100 rpm 24 V with support
- Double pliers for thermometer
- Connection for Mahler bomb electrodes

Power supply
• 220 or 115 Vac 50 Hz

Accessories

- LAB-101-928: reducer manometer
- LAB-102-013: hy-flex junction O₂
- LAB-102-061/A: quartz crucible
- LAB-102-061/B: stainless steel crucible
- LAB-102-061/C: crucible IP12
- LAB-102-061/D: platinum crucible
- LAB-102-062: ignition device
- LAB-102-063: reducer gear for O₂ with double pressure gauge and safety valve
- LAB-102-064: support for cover
- LAB-102-071/A: ignition wire - cr
- LAB-102-071/B: ignition wire - pt
- LAB-102-071/D: cotton wick
- LAB-102-074: sieve, Ø 100 mm, 576 mesh/cm² - 60 mesh
- T-AS116C: thermometer ASTM 116C

Spare Parts
• LAB-102-066: gasket

Optional Accessories

- LT/AB-200/M: analytical balance 200 gr.
- LT/CV-207000/M: calorimeter vessel