

EXTRACTION RESIDUES SEDIMENT

HEAT OF COMBUSTION

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) 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 isoperibol or adiabatic bomb calorimeter.

ISO 1716 REACTION TO FIRE TESTS FOR PRODUCTS -- DETERMINATION OF THE GROSS HEAT OF COMBUSTION (CALORIFIC VALUE)

Method for the determination of the gross heat of combustion of products at constant volume in a bomb calorimeter.

ASTM D129 IP 61 DIN 51577 SULFUR IN PETROLEUM PRODUCTS (GENERAL BOMB METHOD)

This test method covers the determination of sulfur in petroleum products, including lubricating oils containing additives, additive concentrates, and lubricating greases that cannot be burned completely in a wick lamp. The test method is applicable to any petroleum product sufficiently low in volatility that it can be weighed accurately in an open sample boat and containing at least 0.1% sulfur.

ASTM D808 CHLORINE IN NEW AND USED PETROLEUM PRODUCTS (BOMB METHOD)

This test method covers the determination of chlorine in lubricating oils and greases, including new and used lubricating oils and greases containing additives, and in additive concentrates. Its range of applicability is 0.1 to 50 m% chlorine.

Capacity 300ml, completely made in stainless steel included the two electrodes, cover with threaded displacing ring, gasket around the cover edge, an automatic inlet valve, a pin exhaust valve. Tested at 200 bar/20 MPa.

Technical specifications:

- Dimensions: Ø10x22 cm
- Weight: 4.5 kg

2060 CYLINDER MAHLER

Handle for extraction, 2 sectors polycarbonate cover with holes for the passing of stirrer, blade stirrer, motor stirrer 100 rpm 24V with support, double pliers for thermometer, connection for Mahler bomb electrodes. The vessel is fitted with Ignition Device including: low voltage outlet, start pushbutton, 24V socket for motor stirrer, ammeter.

Technical specifications:

- Power supply: 220V 50/60Hz
- Dimensions: 40x40x82 cm
- Weight: 29 kg

2070 CALORIMETER VESSEL

CONSUMABLES x 2 YEARS

10-2061/A	QUARTZ DISH Cap.3 ml
10-2067	BENZOIC ACID FOR PASTILS, pack of 100 g
10-2068	BENZOIC ACID PASTILS, pack of 10 pcs 1 g ±0.1
10-2071/A	IGNITION WIRE CHROMEL C, 5 m., pack of 10 pcs
10-2071/B	PLATINUM IGNITION WIRE, 10 cm.

SPARE PARTS

15-2070/PINZA	PLIERS
15-2070/VAS	INTERNAL VESSEL
15-2070/COP	POLYCARBONATE COVER
15-0004	BIPOLAR GREEN SWITCH
15-0005	BIPOLAR YELLOW SWITCH
12-0010	MOTOR STIRRER 100 RPM 24V
10-0044	AMMETER 0-5A

ACCESSORIES / OPTIONAL

2470/BCA200	ANALYTICAL BALANCE Range 220 g., readout 0.0001, pan Ø80
10-2061/A	QUARTZ CRUCIBLE Cap.3 ml.
10-2061/B	STAINLESS STEEL CRUCIBLE
10-2061/C	CRUCIBLE IP 12 made of stainless steel AISI 316 (25/20) without rim
10-2063	REDUCER GEAR For O ₂ , with pressure gauge, safety valve and junction Hy-Flex for high pressure L=150 cm 1/4"-3/8"
10-2064	SUPPORT FOR COVER
10-2065	PRESS FOR PASTILS
10-2067	BENZOIC ACID FOR PASTILS, pack of 100 g
10-2068	PBENZOIC ACID PASTILS, pack of 10 pcs 1 g ±0.1
10-2074	SIEVE Ø100 mm, 650 mesh/cm ²
10-2071/A	IGNITION WIRE CHROMEL C, 5 m., pack of 10 pcs
10-2071/B	PLATINUM IGNITION WIRE, 10 cm.
10-0332	DIGITAL STOPWATCH 7 digit LCD, max.10 hours, 1/100 sec, digit h=8 mm
T-AS116C	THERMOMETER ASTM 116C
T-AS117C	THERMOMETER ASTM 117C
T-AS56C	THERMOMETER 56C
T-BECK	BECKMANN THERMOMETER 6-6.5:0.01, UPPER PART 420 mm

For ASTM D129 D808 pair with 2060

2470/BCA200	ANALYTICAL BALANCE Range 220 g., readout 0.0001, pan Ø80
10-2062	IGNITION DEVICE
10-2061/D	PLATINUM CRUCIBLE
10-2063	REDUCER GEAR For O ₂ , with pressure gauge, safety valve and junction Hy-Flex for high pressure L=150 cm 1/4"-3/8"
10-2064	SUPPORT FOR COVER
10-2071/B	PLATINUM IGNITION WIRE, 10 cm.
10-2071/D	COTTON WIRE, pack of 3 mt.

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SULFUR - QUARTZ TUBE METHOD

ASTM D1551 (obs) IP 63 DIN 51768 SULFUR IN PETROLEUM OILS (QUARTZ-TUBE METHOD)

Procedure for the determination of sulfur in petroleum oils and related materials. The method is applicable to sulfur in concentrations ranging from 0.01 to 5.0%.

This two-place instrument is mounted on a plate painted with epoxy products and consists of an electric stainless steel furnace with two independent places, two digital thermoregulators with thermocouple, two scrubbers, a trap equipped with two inlet cocks for air or oxygen and two outlet cocks for combustion tubes made in transparent quartz.

The tubes are provided with tapered connections at the inlet side and spherical connections at the delivery side. Set of primary and secondary absorbers on support, vacuum collector with two regulating valves, two flow-off valves, two LPG Meker lamps, flame filter mesh for combustion tubes.

Technical specifications:

- Temperature: up to 1100°C (2012°F)
- Power supply: 220V 50/60Hz

1460 APPARATUS QUARTZ TUBE

ACCESSORIES / OPTIONAL

- | | |
|----------|--------------------------------|
| 10-1464 | COMBUSTION BOAT, pack of 3 pcs |
| 2460/SA3 | VACUUM PUMP |

CONSUMABLES x 2 YEARS

- | | |
|---------|-----------------------------------|
| 10-1464 | COMBUSTION BOAT, pack of 3 pcs x2 |
|---------|-----------------------------------|

SPARE PARTS

- | | |
|-----------|-------------------------|
| 15-1461 | QUARTZ TUBE |
| 15-1462/A | PRIMARY ABSORBER |
| 15-1462/B | SECONDARY ABSORBER |
| 15-1463 | SCRUBBER |
| 15-1465 | SPRAY TRAP |
| 16-0005 | DIGITAL THERMOREGULATOR |
| 14-0003 | THERMOCOUPLE K |
| 15-0004 | BIPOLAR GREEN SWITCH |



Fapa s.a.s.
Via Pascoletto, 20
24040 Lallio (BG)
Tel. 035.6221219
Fax. 035.4372675
fapa@fapa.bg.it
www.fapa.bg.it

