

Ash by Muffle Furnace

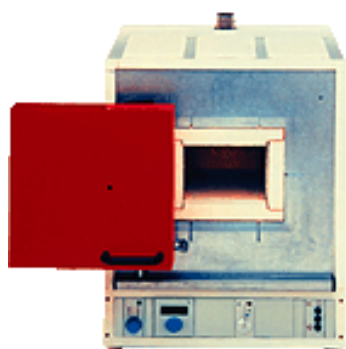
ASTM D 482, ASTM D 874, ASTM D 1026, ASTM D 4422, ISO 3987, ISO 6245, DIN 51352-2, DIN 51575, FTM 791-5421, FTM 791-5422, IP 4, IP 163, JIS K2272

Product group(s): Oil

User group(s): Biodiesel, Biofuel, Crude Oil, Diesel, Distillate Fuel, Gas, Lubricating Oil, Petroleum, Residual Fuel, Turbine Fuel, Wax

Scope: This test method covers the determination of ash in the range 0.001-0.180 mass %, from distillate and residual fuels, gas turbine fuels, crude oils, lubricating oils, waxes, and other petroleum products, in which any ash-forming materials present are normally considered to be undesirable impurities or contaminants.

The test method is limited to petroleum products which are free from added ash-forming additives, including certain phosphorus compounds.



Ash Test Equipment

to be composed of:

- **Muffle Furnace**
- **Crucible** (made of porcelain or platinum)
- **Dish** (made of porcelain or quartz glass)

Technical Data

<u>Rated temperature:</u>	1,100 °C
<u>Dimensions of working chamber</u>	Width: 200 / 576 mm
<u>/ exterior:</u>	Height: 150 / 752 mm
	Depth: 300 / 720 mm
<u>Volume of working chamber:</u>	9 liters
<u>Weight approx.:</u>	78 kg

Main Unit

16-0001

Muffle Furnace Type M110

ASTM D 482 - ASTM D 874 - ASTM D 1026 - ASTM D 4422 - DIN 51 352-2 - DIN 51 575 - FTM 791-5421 - FTM 791-5422 - IP 4 - IP 163 - ISO 3987 - ISO 6245 - JIS K2272

Compact laboratory muffle furnace, table-top design. Short heating-up times and low outer-wall temperatures via the use of high-grade, ceramic-fiber materials in the multi-layer composite insulation. Sidewalls and floor of the working chamber are sturdy, abrasion-proof ceramic slabs. Heater windings made of CrAlFe-alloy, protected in grooved refractory brick.

Easy-to-service control and switching elements are on space-saving pull-out rails, in the card cage. Adjustable temperature limit cut-out with separate thermocouple for instrument protection during non-supervised operation or for load protection.

Electronic analog controller and digital temperature display, thermocouple (PtRh-Pt) and low-noise solid-state relay.

Note: without crucibles.

Power supply: 230 V, 50/60 Hz, 2.9 kW

Options & Accessories

11-0110

Universal Gas Burner

for town gas (<800°C), butane, propane & natural gases (<1150°C)

16-0016	Porcelain Crucible, approx. 25 ml, Ø 45 x 28 mm, glazed (size: 1/45 DIN 12904 / ISO 1772)
16-0015	Porcelain Crucible, approx. 30 ml, Ø 50 x 32 mm, glazed (size: 1/50 DIN 12904 / ISO 1772) ASTM D 4422 - DIN 51575
13-0860	Conradson Crucible, 29 ml, Ø 50 x 32 mm, porcelaine glazed ASTM D 189 - DIN 51 551-1 - IP 13 - ISO 6615 (Conradson)
13-0861	Conradson Crucibles, 29 ml, Ø 50 x 32 mm, porcelain glazed, pack of 10 ASTM D 189 - DIN 51 551-1 - IP 13 - ISO 6615 (Conradson)
16-0003	Porcelain Crucible, approx. 75 ml, Ø 50 x 62 mm, glazed (size: 3/50 DIN 12904 / ISO 1772) ASTM D 874 - ISO 3987 - IP 4 - IP 163
16-0013	Platinum Crucible, 100 ml, Ø 55 x 60 mm, approx. 65 g ASTM D 1026 <u>alternatively for:</u> ASTM D 482 - ASTM D 874 - IP 4 - IP 163 - ISO 3987 - ISO 6245
16-0011	Porcelain Crucible, approx. 120 ml, Ø 60 x 75 mm, glazed (size: 3/60 DIN 12904 / ISO 1772) ASTM D 482 - ISO 6245 - JIS K2272
16-0047	Porcelain Crucible, approx. 150 ml, Ø 70 x 56 mm, glazed (size: 2/70 DIN 12904 / ISO 1772) ASTM D 874 - IP 163 - ISO 3987 - JIS K2272
16-0012	Evaporating Dish, approx. 170 ml, Ø 95 x 55 mm, quartz glass (size: 95 DIN 12336) ASTM D 482 - ASTM D 874 - DIN 51 575 - IP 4 - IP 163 - ISO 6245

Spare Parts

16-0005	Heating Element 220 V
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Order Guideline

Minimum equipment:	1x 16-0001, Crucible, Dish
Spares (approx. 1 year):	Crucible, Dish
Additional requirements:	Balance