



EIE INSTRUMENTS PVT. LTD.
(An ISO 9001:2015 Certified Company)

ASH DETERMINATION TEST APPARATUS - COMPLETE SET - (ASTM D482)

Complete assembly consists of Muffle furnace,
evaporating dish and Furnace tong.

Compliance with following International Standards

ASTM D482, IP 04

Significance & Use

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.

Following Apparatus will be provided to carry out the test

1) Muffle Furnace Horizontal, front loading type

In this improved model, ceramic fiber wool insulation (instead of brick insulation) has been provided resulting in weight and size reduction of furnace. The weight and size of the furnace is 1/4 and 30% less respectively as compared to brick furnace. The heat up time is less. Heat loss is very low-resulting in power saving.

Technical Specifications

- Construction : CRC sheet - attractively powder



Muffle Furnace (M.S. Body)

Corporate Office:

A-1301, BVR Ek, Opp. Hotel Inder Residency,
Near Gujarat College, Ellisbridge,
Ahmedabad-380 006.
Phone : (079) 6621 1234
Website : www.eieinstruments.com

Calibration Laboratory:

B-14, Zaveri Industrial Estate, Opp. Shyam Villa,
Singarva-Kathwada Road,
Kathwada, Ahmedabad-382 430.
Phone : (079) 6604 0660 • Fax : (079) 6604 0600
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GST TIN No. : 24AABCE4018L1ZU
I.T. PAN No. : AABCE 4018L
IEC No. : 0813026598 Dt. 04/03/2014
CIN No. : U29199GJ2004PTC045078
TAN No. : AHME00572F



coated

- Insulation : Ceramic fiber wool insulation
- Maximum Temp : 1200°C
- Working Temp : 1150°C
- Temp. control : Dual display microprocessor based
Digital temperature indicator cum controller with
Pt/Pt-Rh - R type Thermocouple
- Heatings : KANTHAL A-1 wire in coil form placed in
the Elements Ribs & easily replaceable.
- Wiring : As per CE Norms
- Operation : 220/230 Volts, Single phase, AC Supply
- Rating : 2 KW
- Working Size : 225 (9") D x 100 (4") W x 100 (4") H
mm

Vent Port

Built in vent port for removal of non oxious gases etc
preferably with a provision of connecting the extension
pipe with vent lid should be air tight for Volatile Matter
analysis.

Calibration port (If required by indenter)

Provision of hole with cover will be provided in the furnace
door for putting temperature sensor for calibration of
equipment

Safety Features

Thermocouple breaks protection to cut power to the
heating element in order to prevent thermocouple failure
runway condition.

Safety switch to cut of the power in case of door is open

Hour Meter to indicate actual working hours of Heating
Elements

2) Evaporating Dish or Crucible

- 50 to 100-ml for samples containing more than 0.02
mass % sulfated ash, or 120 to 150-ml for samples

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containing less than 0.02 mass % Sulfated ash

- Made of fused silica

3) Electronic Balance (0.1 mg)

- Make : Reputed make
- Weighing Capacity : 220 gm
- Readability : 0.1 mg
- Repeatability : < 0.1 mg
- Pan Size : 80 mm Diameter
- Calibration : Built in Motorized calibration

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