Vero Scientific

CATALOG

VeroAsh

ASH CONTENT FURNACE

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VeroAsh

TECHNICAL PARAMETERS

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According to ASTM D482 standarts

The determination of ash content in petroleum products involves heating a sample to a specified temperature to burn off combustible matter, leaving behind the inorganic residue or ash.

FEATURES

- **ASTM D482 Compliance**
  ASH 100 operates in accordance with ASTM D482 standards for determining ash content in petroleum products.
- **Electrical Muffle Furnace**
  The device features an electrically powered muffle furnace capable of maintaining high temperatures required for ash determination.
- **Enclosed Furnace Design**
  ASH 100 includes a fully enclosed furnace. A specialized elevator system allows safe insertion and retrieval of the sample crucible. This design ensures user safety by reducing exposure to high temperatures, as the crucible's temperature decreases significantly by the time it reaches the elevator door after testing.
- **Rapid Heating Capability**
  The furnace achieves the desired testing temperature swiftly, optimizing efficiency.
- **Precision Weighing**
  A sensitive scale with a precision of 0.0001 g is integrated into ASH 100.
  The enclosed scale environment minimizes the impact of air on sample weight, ensuring precise measurement before and after testing.
- **Pre-Heating Torch**
  ASH 100 includes a separate torch fueled by LPG gas for pre-heating samples up to approximately 500°C before insertion into the furnace.
  This step facilitates controlled heating conditions.
- **Ceramic Crucibles**
  Testing employs ceramic crucibles suitable for high-temperature applications, ensuring compatibility with the furnace and maintaining sample integrity.
- **Safety Equipment**
  ASH 100 is equipped with heat- resistant gloves and forceps designed for safe handling of hot crucibles during sample preparation and transfer.
- **Desiccator for Cooling**
  A desiccator is provided with ASH 100 to cool samples to ambient temperature before weighing the residue (ash), ensuring accurate determination of ash content.

SPECIFICATIONS

Heating Temperature	25 C – 1300 C
Temperature variation sensitivity	10 C
Heating Time (25 to 800)	20 – 30 minute
Dimensions	W: 40cm D: 50 cm H: 71 cm
Weight	25 kg
Power Supply	220 Volt 50 Hz
Power Consumption	3000 Watt

APPLICABLE

REFERENCES

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Vero Scientific

VeroVis
Kinematic Viscometer

- Dora Thermal Power Plant
- Khanakin Lubricants Factory
- Gas Power Plant 2
- Gas Power Plant 1
- Smara Thermal Power Plant
- Quds Power Plant
- Al-Sadir Power Plant

VeroRes
Carbon Residue Analyzer

- Al-Sadir Power Plant

VeroXi
Oxidation Stability Analyzer

- Dora Thermal Power Plant
- Quds Power Plant

VeroAsh
Ash Content Furnace

- Al-Sadir Power Plant

VeroDry
Moisture Evaporator

- Dora Thermal Power Plant
- Gas Power Plant 2
- Gas Power Plant 1
- Al-Sadir Power Plant

VeroCal
Heat Com. Calorimeter

- Al-Sadir Power Plant

VeroCor
Copper Corrosion Bath

- Al-Sadir Power Plant

VeroFoam
Foam Tendency Analyzer

- Al-Sadir Power Plant

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Vero Scientific

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