

SYD-508 Ash Content Tester



Summary

The instrument is designed and made as per national standard of People's Republic of China GB/T508 Standard Test Method for Ash Content of Petroleum Products. It is suitable to determine ash content in the petroleum products as per GB/T508. It could not be used to determine ash content in the petroleum products containing ash-forming additives (including additives containing certain phosphorus compounds), lubricating oils containing lead, and used engine crankcase oils.

The method summary of ash content test: Take ash-less filter paper as ignition core. Ignite the sample in the crucible to make it burn to ash and carbon residue. Heat the carbon residue at 775°C in the high-temperature furnace to make it convert to ash. Then cool down and weigh the mass.

I. Main technical features

1. The instrument is composed of a box-type heating furnace, a temperature control stand and an electric heating plate. It is small size and needs less land.
2. The box-type furnace adopts all-in-one structure. Special fire-resistant material and heating components. The heating time is short and it has a long lifetime.
3. An adjustable LED temperature controller is equipped in the control stand. The overshoot is small and temperature control is stable.
4. The size of heating plate is $\Phi 85\text{mm}$. Small size and good durability.

II. Main technical specifications

1. Box-type heating furnace
 - (1) Power supply: AC220V \pm 10%, 50 Hz
 - (2) Rated power: 2.5 kW
 - (3) Rated temperature: 1000°C
 - (4) Temperature rising time for empty furnace: ≤ 50 min
 - (5) Power consumption for empty furnace: $\leq 800\text{W}$
 - (6) Heat savings: $\leq 5\text{kW.h}$
 - (7) Furnace temperature uniformity: $\leq 15^\circ\text{C}$
 - (8) Thermocouple: WRN-010
 - (9) Size of furnace chamber: 200mm \times 120mm \times 80mm
 - (10) Dimension: 575mm \times 3850mm \times 480mm
2. Temperature control stand
 - (1) Rated controllable power: 5000W
 - (2) Power supply: AC(220 \pm 10%)V, 50Hz
 - (3) Maximum control temperature: 1200°C
 - (4) Temperature controller: DTW2001
 - (5) Thermocouple: WRN-010
 - (6) Dimension: 500mm \times 300mm \times 235mm
3. Electric heating plate
 - (1) Rated power: 1500W
 - (2) Power supply: AC (220 \pm 10%) V, 50Hz
 - (3) Rated temperature: 400°C
 - (4) Heating power: (1~6) grades, continuously adjustable.
 - (5) Diameter of heating plate: $\Phi 85\text{mm}$
 - (6) Dimension: 280mm \times 250mm \times 90mm