

SYD-509A Engine Fuels Existent Gum Tester



Summary

The instrument is designed and made as per the National Standard of People's Republic of China GB/T509 "Test Methods for Existent Gum of Engine Fuels". It is suitable to determine tendency of fuels (gasoline, kerosene and diesel oil) to form gum when the fuels are used in the engine.

I. Main technical features

1. The instrument consists of two parts, oil bath and control box, the instrument is small in size, the design is reasonable.
2. An oil bath for the sandwich round steel container, $\Phi 196\text{mm}$, high 255mm, equipped with a 1000W electric heating pipe, oil bath temperature control accuracy of $(150 \pm 3)^\circ\text{C}$, $(180^\circ\text{C} \pm 3)^\circ\text{C}$, $(250 \pm 5)^\circ\text{C}$.
3. The control box is on the oil bath oil temperature control, the air flow rate of the external air flow control

The instrument's biggest features are: high-temperature oil bath and control box are separated, reasonable design; oil bath adopts stainless steel structure, durable.

II. Main technical specifications

1. Power supply: AC $(220 \pm 10\%)$ V, 50Hz.
2. Bath type: oil bath.
3. Oil bath specifications: $\Phi 195\text{mm} \times 255\text{mm}$.
4. Oil bath cubage: $5000\text{ml} \pm 50\text{ml}$.
5. Heating mode: heated by an electric heater.
6. Heating power: 1000W.
7. Temperature controlling range: room temperature $\sim 250^\circ\text{C}$.
8. Temperature control accuracy: $150^\circ\text{C} \pm 3^\circ\text{C}$; $180^\circ\text{C} \pm 3^\circ\text{C}$; $250^\circ\text{C} \pm 5^\circ\text{C}$.
9. Ambient temperature: room temperature $\sim +35^\circ\text{C}$.
10. Relative humidity: $\leq 85\%$.
11. Total power consumption: less than 1200W.
12. Dimensions: control box $280\text{mm} \times 260\text{mm} \times 380\text{mm}$ (length \times width \times height);
oil bath $\Phi 250\text{mm} \times 450\text{mm}$ (diameter \times height).