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# High Temperature High Shear viscometer
# YK-A2571

The YK-A2571 high-temperature high-shear apparent viscosity tester is used to determine the viscosity of engine oil under high-temperature and high-shear conditions. Under a constant temperature of 150℃, the oil sample in the injection tube is introduced and metered by a gas pump connected to the tube, and then flows through a capillary tube with an inner diameter of 0.15mm under an inert gas pressure of 0.5-3.5MPa, simulating the actual application scenario of high temperature and high shear. The experiment automatically records the duration and stable gas pressure, and automatically calculates the high-temperature high-shear viscosity value of the oil sample.

**Implementation standards：**

Applicable standards: SH/T0703, ASTM D5481, SAE J300

**Instrument Features：**

1. The instrument comes with built-in high-temperature, high-shear dynamic viscosity calculation software, and the measurement results are displayed directly on the screen after the experiment.
2. It uses a high-quality temperature controller for precise temperature control, offering advantages such as high accuracy, strong anti-interference ability, and long service life.
3. It employs a high-end PLC controller, ensuring stable program operation, strong anti-interference capabilities, and suitability for long-term operation.
4. Using a multiple glass capillary viscometer method, the instrument has a low failure rate and fast measurement speed.
5. There are no mechanical rotating parts or moving wear parts, resulting in low maintenance costs.
6. The testing process does not require the use of solvents, reducing the harm caused by volatile solvents to the human body.



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7. Calibration is performed using professional-grade viscosity standard oil, resulting in good repeatability and reproducibility of the instrument.
8. The data is accurate and reliable; the test results from multiple instruments have been verified through comparative testing by the SGS laboratory.

**Technical Parameters:**

- Power Supply: 220V 50-60Hz
- Temperature Control Method: Aluminum bath constant temperature
- Temperature Control Range: Experiment: 150±0.1℃
- Test Units: 1 unit
- Capillary Viscometer Dimensions: ¢ 0.15×18mm
- Heating Power: 1.2KW
- Heating Element: Stainless steel electric heating tube
- Pressure Gas Source: Nitrogen
- Display Method: 7-inch full-color touch screen
- Automatic detection
- Optional printing function (automatic printing)



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