

AUTOMATIC ANILINE POINT APPARATUS



Automatic Aniline Point Apparatus TT-611Z

Automatic Aniline Point Apparatus TT-611Z is designed to adhere to ASTM D611 Standard Test Methods for Aniline Point and Mixed Aniline Point of Petroleum Products and Hydrocarbon Solvents.

Automatic Aniline Point Apparatus TT-611Z primary function is to determine the aniline point of petroleum products and hydrocarbon solvents. Additionally, it is capable of testing the mixed aniline point of petroleum products and hydrocarbon solvents with aniline points below the temperature at which aniline crystallizes from the mixture.

APPLICATIONS

The primary application of the Automatic Aniline Point Apparatus TT-611Z is to automatically determine the aniline point of petroleum products and hydrocarbon solvents, in compliance with the ASTM D611 standard. The aniline point is a critical indicator of the product's aromatic content, which is used to predict its solvency power (e.g., its effect on seals and elastomers) and its combustion characteristics. The fully automated process enhances test repeatability and improves laboratory workflow.



Key Industries

- **Petroleum Refining:** Refineries use this test for essential quality control of various products, including fuels, solvents, and lubricating base oils. The aniline point is a key specification that helps characterize the product and ensure it meets performance requirements.
- **Chemical Manufacturing:** The chemical industry relies on this test to determine the solvency power of hydrocarbon solvents, which is a critical parameter for their use in paints, coatings, inks, and other chemical formulations.
- **Lubricant Manufacturing:** Lubricant blenders use the aniline point of their base oils to predict how the finished lubricant will interact with rubber seals and hoses. A low aniline point (high aromatic content) can cause elastomers to swell and degrade, so this test is crucial for ensuring product compatibility.

FEATURES

- The 7-inch color LCD touchscreen adds a stylish and beautiful touch to the apparatus. Its all-English control interface ensures clarity and intuitiveness.
- Photoelectric sensors are utilized to ensure precise test results and consistent repeatability.
- Equipped with an over-temperature alarm function, the apparatus triggers a buzzer alarm and halts the test automatically if the sample temperature exceeds 170°C during testing.
- Operating the device is simple with a one-key start, allowing the test process to be completed automatically.
- The main unit is controlled by a microprocessor program, enabling automatic heating, stirring, and identification of aniline points. It also facilitates automatic storage, printing, and shutdown at the conclusion of the test.

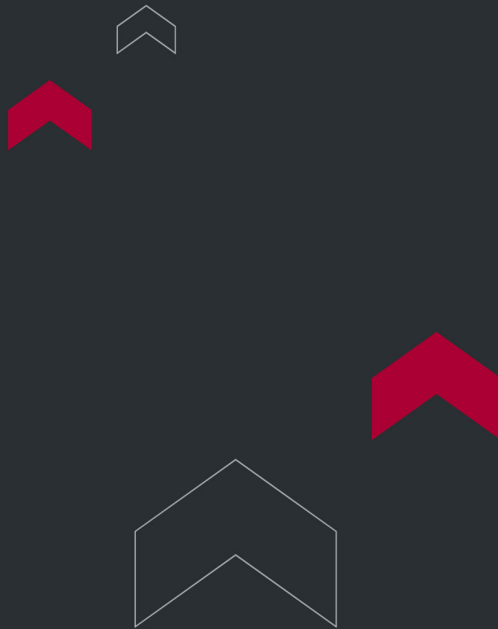
TECHNICAL SPECIFICATIONS

1. Applicable Standard: ASTM D611
2. Temperature Control Range: Room temperature to 170°C

3. Temperature Control Accuracy: $\pm 0.1^{\circ}\text{C}$
4. Heating Method: Electric heating rod
5. Heating Power: 60W
6. Stirring Method: Motor-driven soft shaft stirring
7. Detection Method: Photoelectric sensor
8. Storage Records: 200 records
9. Printing Method: Micro printer
10. Power Supply: AC 220V $\pm 10\%$, 50Hz (110V also available)

Optional Accessories:

1. Stainless steel tray: One piece
2. Glass test tube: One piece



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