

MANUAL ANILINE POINT APPARATUS



Manual Aniline Point Apparatus TT-611A

Manual Aniline Point Apparatus TT-611A complies with ASTM D611 Standard Test Methods for Aniline Point and Mixed Aniline Point of Petroleum Products and Hydrocarbon Solvents.

It is primarily used to determine the aniline point of petroleum products and hydrocarbon solvents. Additionally, it can be used to test 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 Manual Aniline Point Apparatus TT-611A is to determine the aniline point of petroleum products and hydrocarbon solvents, in compliance with the ASTM D611 standard. The aniline point is the lowest temperature at which equal volumes of the sample and aniline are completely miscible. This value 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.

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

- This tester is capable of measuring both heavy and light aniline points.
- It features automatic heating, heat preservation, cooling, dimming, and automatic display and storage of testing data.
- The instrument is equipped with an auto-diagnosis and self-protection program.
- It has the capability to store up to 99 groups of tested data.
- Additionally, it comes equipped with a print port and RS-232C interface.
- The LCD screen can display various information including date and time, oil batch number, test mode, sample temperature, photolepsy, and malfunctions.

TECHNICAL SPECIFICATIONS

1. Working power: AC220V $\pm$ 10%; 50Hz (110V also available)
2. Motor power: 6W
3. Heating power: 2kW
4. Temperature controlling range: Ambient to 200°C
5. Temperature precision: Less than 0.5°C
6. LCD: Plasma VFD, 5V



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