ANILINE POINT
AP611 Automated Aniline Point Tester

Perform up to 3 aniline point tests… simultaneously

ASTM D 611, IP 2

The AP611 from ISL automatically determines aniline point of petroleum products and hydrocarbon solvents. This test is an important parameter used in characterization of pure hydrocarbons and hydrocarbon mixtures, including jet aviation fuel and vacuum gas oils.

Comprised of a central processing unit and 1, 2 or 3 measuring station(s), this analyzer can perform up to 3 tests simultaneously. Each cell uses the test tube prescribed in method A of ASTM D 611 or IP2, but is applicable to both light- and dark-colored samples.

- Automated aniline point testing according to ASTM D 611 & IP 2
- -25° to +130°C test range
- Tests clear and dark samples
- Central unit controls up to 3 independent measuring stations
- No external chiller necessary for testing down to -15°C
- Stirrer speed adjustments via keyboard
- Special “Fast” test function
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COMPONENTS OF THE AP611

Control Unit
The Control Unit includes an LCD display and alphanumeric keyboard from which the user inputs test conditions, starts a test, and accesses maintenance functions. Calibration routine is also accessible via the keyboard.

The Control Unit simultaneously monitors up to 3 measuring cells. The last 50 results are stored in memory and available for display and/or printing.

Measuring Station/Cell
The Measuring Station is compact and easy to use and service. Each measuring cell has its own digital temperature display, which allows rapid checking and diagnostics. It utilizes a standard aniline point jar and standard reciprocating stirrer to conform very closely to ASTM D 611.

The sample is heated as described in the method. Up to 5 repeats can be performed on the sample/aniline mixture. As an aid to the operator, the instrument will indicate if the repeats are all within the accuracy of the standard. Detection of aniline point is carried out using a light source detector, which detects the point at which two phases become immiscible.

With the special window located in front of the test tube, the user can easily monitor operation of the test. At test end, the user places the test head on a rest holder for cleaning. Cleaning is automated to avoid contact with hazardous aniline.

Built-in Peltier elements enable a very large operating range from -25º to +130ºC. (Below -15ºC, the equipment must be connected to an external source of refrigerated fluid at 0ºC.)

SPECIFICATIONS

Ordering Information
AP611 Automated Aniline Point Tester for aniline point determinations of petroleum products and hydrocarbon solvents. Includes central control unit with customer choice of up to 3 measuring stations/cells, 2 test tubes per measuring cell, and 2 meters of reinforced plastic tubing. Please specify 100V, 115V, 230V, or 240V when placing order.

Methods
ASTM D 611 and IP 2

Operation
- -25º to +130ºC temperature range
- Alphanumeric keyboard and LCD display on control unit
  - input test conditions
  - initiate test
  - view stored results
- Fast Function available for quick aniline point determination
- Light source detects point at which 2 phases become immiscible
- Up to 5 repeats on each sample/aniline mixture; instrument indicates if repeats are all within accuracy of standard

Documentation
- Digital temperature display on each measuring station/cell
- Central control unit stores 50 last results to memory
- Centronics® printer link (standard)
- Optional RS 232C serial link

Utility Requirements
- Electrical: 100, 115, 230 or 240 VAC; maximum 400 W
- Tap water; for operating temperatures below -15ºC, external source of refrigerated fluid at 0ºC required

Dimensions & Weight
- Control Unit: 27 (W) x 33 (D) x 17 (H) cm; 2 kg
- Measuring Cell: 25 (W) x 45 (D) x 35 (H) cm; 8 kg

Options & Accessories
- RS232C Serial Link
- Probe Simulator Box (-50 to 200ºC), for calibration and diagnostics
- Printer Kit, includes 40 column printer with connection cable; specify 230V or 115V (50/60 Hz)

Due to our commitment to continual product development, specifications are subject to change without notice.