

ASPHALT CONTENT TESTER

Asphalt Content (Electric Ignition Method Type)



The Asphalt Content Ignition Oven tester is a micro controller based equipment based on the electric ignition oven method for fast and accurate determination of asphalt content.

The Asphalt content tester is a cost effective and environmentally friendly method for the determination of asphalt content using electric ignition method. The HYRS6 asphalt content tester has an internal electronic balance that automatically monitors the sample weight throughout the ignition process, saving valuable time and increasing productivity.

The system is based on the principle of **Pyrolysis**, which burns off the asphalt, leaving only the aggregate – the loss in weight resulting from the burn is directly related to the asphalt content. As a result, the simple analysis of before and after weight of the material allows asphalt content to be assessed. The system has replaced worldwide, use of trichloroethane .

The equipment comprises three parts : **combustion device electric furnace, a sophisticated electronic balance for weight measurement integrated with a test control and data processing micro controller unit**. All of the data is display in real time on the **touch screen controller**. Above the furnace chamber is a fumes assembly chamber where the fumes mix with air before being exhausted through the flue by the fan.

The HYRS6 Asphalt content ignition oven tester provides asphalt content of bituminous paving mixtures accurate to 0.1%.



Features:

- Fully automatic test cycle, automatic printout of result at end of test.
- Touch Screen Color display that provides real time display of measurement data.
- Touchscreen display allows easy navigation of parameter setting, Debugging, Calibration & etc.
- Micro-controller based unit provides high degree of accuracy.
- Recommended sample of 1000 to 1500 grams of asphalt can be tested in 30-45 minutes.
- The equipment can accommodate samples up to 5000 grams
- Built in electronic weighing system.
- Built in printer that provides direct printout of test results for record purposes.
- Accurate endpoint detection according to the pre-set calibration factor.
- Reference to standard ASTM D6307-98 and AASHTO T308-99.

Specifications :

Model:	HYRS-6
Chamber Dimension:	350X440X330 mm(W x D x H)
Electric Rating:	415V (+/- 10v) <= 20A 3 Phase
Capacity of Balance:	10kg. division value: 0.1g
Operating Temperature of Chamber:	up to 650 C
Sample Capacity:	up to 5000g
Recommended weight of sample:	1000-1500g
Test Accuracy of asphalt:	0.1%
Microcontroller unit:	The control panel is installed in front of the equipment. Operator can set the test parameter and initiate the test. While testing, the monitor displays the real-time test data and parameters, Instrument will provide an automatic printout of the test result from the built in printer
Safety Door	Automatic Monitoring of door closed during test: Buzzer will activate if door opens during test
Microcontroller unit:	Bi directional real time communication with weighing system
Display:	Touch screen LCD display
Working menu function include	Pre heating, Start testing, Tare, Parameter Menu, System Debug, Print Report, Reset Buzzer, Help Menu
Weight:	Approx: 125Kg

Product Supply Includes: HYRS 6 Asphalt Content Ignition Tester Complete with sample basket, Extraction arm & Metal exhaust pipe.

Item Code: ST-HYRS6