UTEST
MATERIAL TESTING EQUIPMENT

ASPHALT

Analysis of Bituminous Mixtures

ASPHALT BINDER ANALYSIS

Product Code

UTAS-0060-C	Asphalt Binder Analyzer (ABA) by the Ignation Method
UTAS-0061	Spare Basket and Tray Set
UTAS-0062	Cooling Cage
UTAS-0065	Metal Stand for UTAS-0060

Models for 380V, 50 Hz, 3 ph.	UTAS-0060-C
Models for 220V, 60 Hz, 3 ph.	UTAS-0060-NC

Standards

EN 12697-39; AASHTO TP53; ASTM D6307

The UTEST ABA Asphalt Binder Analyzer is used to determine the binder content of hot mix asphalt/bituminous mixtures by the method of loss on ignition. The system combines a sophisticated furnace and weighing system to continuously measure the weight loss of a bituminous mixture during combustion and automatically calculates its binder content at the end of the test.
Supplied complete with 2 specimen baskets with a safety cover, a carrying tray, a fork to catch the tray, and 3m metal exhaust pipe. The Metal Stand (UTAS-0065), the cooling cage (UTAS-0062) and if the tests are to be performed consecutively without waiting for cooling, the Spare Basket and Tray Set (UTAS-0061) shoud be ordered seperately.
UTAS-0061 Spare Basket and Tray Set consists of 2 pcs. basket (one has a safety cover) and a carrying tray.

OVEN AND AFTERBURNER

- High efficiency heating system with afterburner chamber for a total combustion of exhaust fumes to minimize emissions to conform with EU Directives.
- Sample size up to 4500 g for more representative test results
- Maximum power rating is 4,5 kW

HARDWARE

- 16 bit microprocessor with one CPU card controlling test data display, temperature, database and internal functions
- Large permanent memory to store test results
- On board 40 column serial printer
- Weighing system 15000 g capacity, 0.1 g resolution and detecting mass variations of ± 0,1 g
- PID closed loop thermoregulation for both oven and afterburner chamber
- 800 °C Afterburner 540 °C oven set temperature according to standard
- TFT touchscreen with 800x480 resolution and 65000 colors.

FIRMWARE

- Bidirectional real time communication with the weighing system
- Test setting menu with physical and descriptive sample parameters (initial weight, weight loss percentage, correction factor)
- Calibration menu to check and set the temperature and weight calibration for possible manual control of the test performance
- Test performance menu with simultaneous display of all the test data

Internal memory for up to 100 tests.

SAFETY FEATURES

- Automatic door locking after 150 °C
- Automatic monitoring of closed door before test start

Double Sample Basket

The UTEST ABA Asphalt Binder Analyzer is supplied complete with;

- Two Specimen Basket with a Safety Cover
- A Carrying Tray
- A Carrying Fork
- 3m Metal Exhaust Pipe

Dimensions	670x1140x1230 mm
Weight (approx.)	135 kg
Power	10 kW

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