

B005N : Bitumen content furnace by ignition method

STANDARDS : AASHTO T308-10, ASTM D6307-10, BSEN 12697-39:2012

The binder content of bituminous mixtures is one of the major properties related to pavement performance. In particular it affects the pavement's tendency to permanent deformation, fatigue life and susceptibility to moisture damage.

Therefore, the measurement of this property is fundamentally important for quality control (QC), quality assurance (QA) and research purposes. In this context the ignition method can determine the binder content with high precision, offering a valid alternative to the solvent extraction methods.

- **Outer dimensions:** 635x825x1214 mm
- **Inner dimensions:** 350x445x260 mm
- **Power supply:** 400V 3ph 50/60Hz 8500W
- **Max Temperature:** 750 °C
- **Weight:** 70 kg approx.



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It's a unit with:

- An independently controlled afterburner with exhaust fan and vent reduces emissions.
- Safety systems to ensure that the furnace door is kept closed during the test and that the heating elements are deactivated any time if the door is opened.
- Cyber Pluss Progress - 7" colour touch-screen with smart interface.

Analysis can be made on a sample weighing maximum 5 kg and most tests are completed in 20 to 45 minutes (depending on the size of aggregates).

Supplied complete with 2 sample baskets with stands, hot sample safety guard, sample basket loading handle, printer paper rolls, calibration plate and protective mask. Gloves to be ordered separately.

Main features :

- Fully automatic and customizable test cycle, real-time display of test parameters and results.
- Possibility of introducing data of the mix design for a greater accuracy of the results.
- Ignition method reduces testing time costs.
- Rapid heating main chamber with robust Ø 1 mm wire elements.
- Direct access to the scale to facilitate inspection and maintenance.
- Internal balance measures loss on ignition to 0.1 g resolution.
- Unlimited memory storage with: 2 USB ports, 1 SD card slot, RS232/485 serial port.
- On-board graphic printer.
- Possibility to connect an external balance.

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