

Bitumen Testing

Bitumen Ovens



Rolling Thin-Film Oven

ASTM D2872

New

- Double wall construction with high density thermal insulation
- Non-rusting grade 304 stainless steel interior
- Easy clean powder painted steel exterior
- Top mounted fan constructed with an air plenum
- Fitted with a squirrel-type fan blade for better uniformity of air and temperature distribution
- Equipped with air jet for blowing heating air into each bottle at its lowest point of travel
- Base mounted elements
- Vented to atmosphere
- Single front opening, side hinged door with positive quarter turn latching mechanism
- Double glazed window in door for viewing the test chamber

The Rolling Thin-Film Oven (RTFO) procedure provides simulated short term aged asphalt binder for physical property testing. Asphalt binder is exposed to elevated temperatures to simulate manufacturing and placement aging. The RTFO also provides a quantitative measure of the volatiles lost during the ageing process.

The control system comprises of a microprocessor digital controller and overheat thermostat with calibrated scale and tamper-proof lock.

Specification

Max Temp (°C)	163°C ± 1°C (preset)
Dimensions: Internal (L x W x H)	440 x 480 x 380 mm
Dimensions: External (L x W x H)	660 x 710 x 800 mm
Insulation	Double wall
Internal material	304 stainless steel
Max power (W)	1500

Ordering Information

46-4150/01 Rolling Thin-Film Oven 220-240 V, 50/60 Hz.



Loss on Heat/Thin-Film Oven

BS 2000, ASTM D6, D1754 & AASHTO T47, T179

New

- The exterior is constructed from sheet steel finished in an easy clean powder-coated paint
- Interior chamber is made from stainless steel
- The unit is well insulated and has a double glass door for viewing the test chamber
- The system is controlled by a microprocessor digital controller and overheat thermostat
- Calibrated scale and tamper-proof lock
- Temperature is controlled and pre-set at 163°C +/- 1°C
- Two rotating platforms of 13.5 inches diameter are supplied to perform both the tests

The Thin-Film Oven is used for determining the loss in mass of oil and asphaltic / bituminous compounds when heated with the loss on heating test method or the effect of heat and air on semi-solid asphaltic / bituminous materials with the Thin-Film Oven (TFOT) method.

Side mounted controls comprise

- Microprocessor digital control
- Independent overheat thermostat
- Mains switch
- On/Off switch for the turntable motor
- Indicator lamps

Specification

Max Temp (°C)	163
Dimensions: Internal (L x W x H)	460 x 520 x 380 mm
Dimensions: External (L x W x H)	630 x 870 x 570 mm
Insulation	Double wall
Internal material	304 stainless steel
Turntable speed (rpm)	5.5
Max power (W)	1500

Ordering Information

46-4100/01 Loss on Heat/Thin-Film Oven 220-240 V, 50/60 Hz.