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Product Name :
Thin Film Oven

Product Code :
LBNY-0005-2020003



Description :

The rolling thin film oven (RTFO) test is used to measure the effect of heat and air on a moving film of semisolid asphalt binder. The results of this treatment are determined from measurements of the binder properties before and after the test. The superpave PG binder specification looked for tests which would closely simulate field performance. Hotmix asphalt binder experiences significant aging during the manufacturing and laying process. Repeat ability of the test is directly related to the accuracy with which the oven temperature can be maintained and the re producibility of the thermal rise time of the system. Investigating this phenomenon within a laboratory environment, with a repeatable and simple test is very useful within the design process.

Technical Specification :

Construction : Double-walled construction, interior corrosion resistant stainless steel and exterior mild steel duly painted

Thermal Protection : Prevents oven from overheating in the event of control failure

Insulation : 75 mm of high density fiberglass insulation

Temperature display : Measured temperature - 4 digit red LEDs

Temperature Range : Ambient to 200°C

Temperature Controller : PID Controller

Temp. Control Accuracy : 0.5C

Vents : Double exhaust vents for dissipation of expended volatile from specimen

Heat Exchanger: 5/16 inch dia. copper lube

Electrical Supply : 230 V AC 50 Hz single phase

Air Flow Adjustment : Needle valve (long taper)

Air Pressure Gauge : Range 0 - 60 PSI

Dimensions ; H 381 mm X W 483 mm X D 445 mm \pm 13 mm
Timing Device: 85 Min Alarm
Specimen Qty : 8 Nos
Rotating Speed : 15R \pm 0.2R/Min.
Ambient Temp.: 5-50"c
Power Supply : 220 VAC 50 HZ
Power Rating : 2.6 KW
Estimated Weight: 100 Kg.



Laboratory Instrument India