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Rolling Thin Film Oven ZI 4036

Standards: ASTM D 2872

Specification:

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. Investigating this phenomenon within a laboratory environment, with a repeatable and simple test is very useful within the design process. The **Rolling Thin Film Oven** (or RTFO Ignition Oven) 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. Repeatability of the test is directly related to the accuracy with which the oven temperature can be maintained and the reproducibility of the thermal rise time of the system.



Technical Specifications:

- Construction : Double-walled construction, interior corrosion resistant stainless steel and exterior mild steel duly painted
- Insulation : 75 mm of high density fiberglass insulation
- Temperature display : Measured temperature - 4 digit red LEDs
- Temperature Controller : PID Controller
- Thermal Protection : Prevents oven from

overheating in the event of control failure

- Temperature Range : Ambient to 200°C
- Temp. Control Accuracy : 0.5C
- Vents : Double exhaust vents for dissipation of expended volatile from specimen
- Air Flow Adjustment : Needle valve (long taper)
- Air Pressure Gauge : Range 0 - 60 PSI
- Heat Exchanger : 5/16 inch dia. copper tube
- Electrical Supply : 230 V AC 50 Hz single phase
- Dimensions : H 381 mm X W 483 mm X D 445 mm ± 13 mm
- Rotating Speed : 15R ±0.2R / Min.
- Timing Device : 85 Min Alarm
- Specimen Qty : 8 Nos
- Ambient Temp. : 5~50°C
- Power Supply : 220 VAC, 50 HZ
- Power Rating : 2.6 KW
- Estimated Weight : 100 Kg