

SYD-0609 Thin Film Oven



Summary

The SYD-0609 Thin Film Oven (82 type oven for short) is designed and made as per T0609-1993 Thin Film Oven Test in the industrial standard of People's Republic of China JTG E20-2011 Standard Test Methods for Bitumen and Bituminous Mixtures for Highway Engineering. It is suitable to test the quality loss after heating the road asphalt film. And also test the change of needle penetration, softening point, breaking point and ductility for asphalt residue as a need to evaluate the aging resistance property of asphalt.

I. Main technical features

1. The outer shell is made of sheet steel. It equips a stainless steel working chamber on the top half. There is an observation window in the center. An illuminating lamp is equipped inside the chamber. Easy to observe the reading of thermometer inside the chamber during the test.
2. The heating device is equipped on the bottom of the chamber. It adopts natural convection method to heat the air. The chamber can be heated uniformly by air channel on the top, bottom and back.
3. There are four turn plates for placing the specimen container on in the center of the chamber. It can be rotated by a motor having a rate at 5.5RPM.
4. Intelligent temperature control ensures the temperature is at $163^{\circ}\text{C}\pm 0.5^{\circ}\text{C}$ as per standard test method.

II. Main technical specifications

1. Power supply: AC220V \pm 10%, 50Hz
2. Power: 2.5KW
3. Temperature of workroom: $163^{\circ}\text{C}\pm 0.5^{\circ}\text{C}$
4. Temperature control accuracy: $\pm 0.5^{\circ}\text{C}$
5. Rotate speed of turn plate: $(5.5r\pm 1r)/\text{min}$
6. Test sample quantity: 4 pieces
7. Size of workroom: 450mm \times 450mm \times 510mm
8. Ambient temperature: $5^{\circ}\text{C}\sim 50^{\circ}\text{C}$
9. Relative humidity: $\leq 85\%$