

O14 Ageing Chamber

- Temperature controlled to 140 ±0.2°C Digital temperature display
- Tri-colour LEDs indicate test status
- Four chambers with independent timers

The O14 Wallace Ageing Chamber, ages rubber in accordance with the international testing standards. In conjunction with the Rapid Plastimeter, it allows the user to determine the Plasticity Retention Index (PRI) of raw natural rubbers (see notes on page 10).

Housed in a robust steel case, the O14 features an aluminum block with four chambers that carry the drawer units and sample dishes. Heater elements are wrapped around the block and the use of high quality insulation inside the case helps to minimize heat loss.

An air pump with filters, which provide pre-heated air to the chambers, are located on the rear panel for easy service access. Test samples are placed on round foil dishes, which locate in recesses in the drawer units.

When a drawer is pushed in, a timing sequence starts only for that chamber. As the 30-minute ageing process ends, by changing colour, the light next to the drawer reminds the operator when to remove the sample. If the ageing period is exceeded, the light changes to red indicating that the samples should be discarded.

A temperature of 140°C (required by the standard) is maintained by a PID Controller, which continuously displays the chamber temperature. The O14 is protected by a warning system, which is initiated if the correct temperature is exceeded by more than 10°C.



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Specifications O14 Ageing Chamber	
Weight	23 Kg
Dimensions	270 (w) x 490 x (d) x 230mm (h)
Maximum Power	200 watts
Chamber size	50 (w) x 12 (d) x 280mm (h)
Number of heating chambers	4
Number of dishes per tray	4
Number of samples per tray	12 max
Number of samples per O14	48 max
Operating temperature	140 °C ± 0.2°C
Temperature recovery	< 2 mins @ 140 °C after sample insertion
Standards	BS ISO 2007, BS ISO 2930, ASTM D3194