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DW1470 OXIDATIVE INDUCTION TIME TESTER



Model No.

DW1470

Application:

DW1470 Oxidative Induction Time Tester is used to measure the oxidative induction time (OIT) of plastic or rubber materials. The time is used as an indication of the oxidative thermal stability of plastic or rubber materials. When samples are placed into the rack of the instrument and protected in Nitrogen, heat them at the rate of 20°C/min until the temperature reaches 200°C ± 0.1°C; Hold the temperature for 7 minutes and then quickly switch Nitrogen to Oxygen. Samples will react with Oxygen to produce heat energy. Curve of change in temperature will be recorded and the time when there is an obvious change on the curve is regarded as the oxidative induction time.

Related Standards:

STANDARDS	GB/T 17391	ISO/TR 10837 ASTM D3895
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Note: this tester can conform to but not limit to all the standards above, for more standards conformance, please contact us.

Features:

- Integrative design with less signal loss and less interference;
- Small-scale heating furnace with less thermal inertia to linearly heat samples from the beginning of room temperature and more precise constant-temperature control;
- Two thermometers: one to real-timely display temperature in the heating furnace; the other to display temperature on samples during test;
- Perfect air control system consisting of two air passages to control air flow in quality and automatic system to switch Nitrogen to Oxygen during test;
- Automatically measure oxidative induction time and protract a curve;
- Automatically draw the tangent, seek a intersection and get the time length between the intersection and the point where Nitrogen is switched to Oxygen;
- Large LCD screen to real-timely display state of the instrument and test data;

- Automatically create test report;

Key Specification:

Temperature conditions:

- Temperature range Room temperature~1150℃
- Temperature accuracy $\pm 0.1^{\circ}\text{C}$
- Heating speed $0.1\sim 80^{\circ}\text{C}/\text{min}$
- Oxygen and high-purity nitrogen supplies Automatically switch from Nitrogen to Oxygen

Temperature measuring apparatus:

- Measuring range $\pm 10\mu\text{V}\sim\pm 2000\mu\text{V}$
- DTA resolution $0.01\mu\text{V}$
- DTA noise $<0.01\mu\text{V}$
- Capacity of crucible 0.06ml or 0.12ml

Standard configuration:

No.	Item	Quantity
1	Main machine	1 set

Optional Accessories:

No.	Item
1	
2	