

Model no. H3003-0018

DSC MEASURING DEVICE FOR OIT MEASUREMENTS



According to

ISO 11357-6

EN 728

ASTM D 3418

ASTM D 3895

Dynamic difference calorimeter for determining the oxidation induction time for polymer pipe and protective pipe systems as well as moulded elements made of polyolefins. The length of time the anti-oxidant remains in the test sample and thus prevents oxidation is measured. The test sample is kept at a constant, predetermined temperature in flowing oxygen during this test. The dynamic difference calorimeter provides a large measuring range at high resolution. This quality device is characterised by high temperature accuracy and reproducibility as well as high manufacturing quality and the latest sensor technology.

EASY AND SAFE OPERATION

- > Comfortable operation, evaluation and clear visualisation with PC operating software
- > Protection and flushing gas facilities are included

RELIABLE TEST RESULTS

- > Laser-based processing of the sensor disk and the thermoelements ensure high sensitivity and long-term stability

LASTING EFFICIENCY

- > High-quality equipment components to ensure high reliability, a long service life and low maintenance costs

STATE-OF-THE-ART TECHNOLOGY

- > Software for performing measurements and evaluating the measurement data

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VERSION DSC MEASURING DEVICE FOR OIT MEASUREMENTS

CE conformity		✓
Temperature range for cooling with compressed air	°C	ambient temperature to +600
Oven for fast heating and cooling cycles		✓
Sensor for results with high resolution and reproducibility		✓
Software-controlled magnetic switching valves for two flushing gases and one inert gas		✓
Integrated mass flow controller for two flushing gases and one inert gas		✓
Automatic sample changer for up to 20 samples and references		+
Calibration kit		✓
Press for pressure-tight closing of the crucibles		+
Switch-valve add-on, admission pressure max. 1 bar		+
Intracooler for retrofitting		+
Gas atmospheres		dynamic, static, oxidising, inert
Measuring range	mW	± 650
Sensitivity	µV/mW	3.6 to 4.0
Sensor time constant	s	ca. 2.5
Gas flow	ml/min	(0) to 5 to 250
Heating rate range	K/min	0.001 to 100
Temperature accuracy	K	± 0.1
Enthalpy accuracy	%	< 2
Operation via PC		✓
PC including software		✓
Permissible environmental temperature	°C	20 ± 5
Permissible relative humidity	%	60 ± 20 non-condensing
Permissible atmospheric pressure	hPa	1,013 ± 30
Dimensions (W x D x H)	mm	320 x 520 x 380
Weight	kg	ca. 28
Voltage data		230 V, 50 Hz * other voltages

✓ included

+ available/optional

○ eligible

– not available

* available upon request