PW-NCT-01

For Building Materials · EN ISO 1182:2020

Non-Combustibility Test Furnace

Product details

Evaluate temperature rise, mass loss and sustained flaming in a heated tube furnace.



ΔT
Temperature rise
°C

Δm
Mass loss
%

t_f
Sustained flaming
s

MATERIAL DEVELOPMENT & QUALITY CONTROL

For R&D and internal quality control of mineral and fiberglass-based products, including membrane formulations with binders, treatments and pigments.

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From specimen to result

Test sequence based on EN ISO 1182:2020.

1

Prepare & weigh

Condition the specimen and weigh it on an external balance.

2

Heat & stabilise

Stabilise the furnace at the nominal test temperature of 750°C.

3

Expose & record

Lower the specimen; log four temperatures and record flaming time.

4

Cool & evaluate

Weigh the residue; calculate temperature rise and mass loss.

Technical specifications

Model	PW-NCT-01
Method reference	EN ISO 1182:2020 - non-combustibility test
Nominal furnace temperature	750°C
Nominal specimen size	Ø45 × 50 mm; preparation according to the test method
Temperature channels	4 included: two furnace, one specimen surface and one specimen centre
Thermocouples	Type K, Class 1; 1.5 mm sheath; insulated hot junction
Recording interval	0.5 s per channel (2 Hz); live temperature curves
Reported quantities	Temperature rise ΔT, mass loss Δm and flaming duration t_f
Operator interface	7-inch touchscreen PLC/HMI with separate control console
PC software	Data acquisition, result evaluation and reporting; included as standard
Mechanical arrangement	Tube furnace, manual specimen lift, stabilising cone and draft screen
Protective functions	Independent overtemperature cutout and emergency stop

Main assembly

- Furnace, stand, airflow cone and draft screen
- Specimen holder, manual guide and viewing mirror
- Four thermocouples and measurement electronics
- 7-inch touchscreen console and PC software

Accessories & services

- Furnace profile verification and calibration tools
- External balance, conditioning oven and desiccator
- Spare specimen holders, thermocouples and heater
- Installation, operator training and calibration services

Mass loss is determined by weighing before and after exposure. Sustained flaming is observed and timed by the operator.

PC software is included. Computer hardware is optional and quoted separately.

Other accessories and services are specified in the quotation.

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