

PW-NCT-01

EN ISO 1182:2020

Non-Combustibility Test Apparatus

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.

Precision at Every Stage. Confidence in Every Test.

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From specimen to result

Test sequence based on the EN ISO 1182:2020 method.

1	2	3	4
Prepare & weigh	Heat & stabilise	Expose & record	Cool & evaluate
Condition the specimen and record its initial mass using an external balance.	Bring the furnace to approximately 750°C and verify temperature stability.	Lower the specimen into the furnace; record both furnace temperatures and flaming time.	Weigh the cooled residue; determine temperature rise, mass loss and sustained flaming.

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 measurement	Two furnace thermocouples; optional specimen channels
Reported quantities	Temperature rise ΔT , mass loss Δm and flaming duration t_f
Operator interface	7-inch touchscreen PLC/HMI with separate control console
Data handling	PC-based temperature recording, result evaluation and reporting
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
- Two furnace thermocouples and measurement electronics
- Touchscreen console and PC reporting configuration

Accessories & services

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

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

Accessories and services are specified in the quotation.

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Method reference: EN ISO 1182:2020

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