

Microtherm® “In-house” fire test capabilities

A selection of fire performance testing options

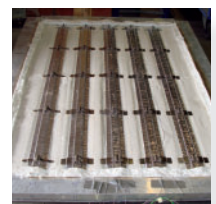
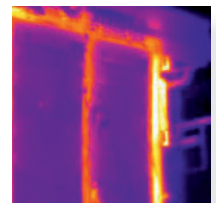
STRUCTURAL FIRE PROTECTION

Microtherm® Passive Fire Protection (PFP) systems are used around the world in all forms of transportation. Also for protection in buildings for structural steelwork and for lift shaft access doors, and for protection to valves and pipework offshore.

Microtherm® Insulation Systems are also used for protection to a wide variety of fire safes and temperature resistant data loggers including “black box” flight recorders. As well as organising and supervising fire performance testing of our PFP systems at accredited international test laboratories, we have the capability of a wide range of “in-house” fire testing in our own purpose built test laboratory.

Benefits

- Cost effective.
- Indicative testing integrated into development programme.
- May be witnessed by external surveyors.
- Temperature measurement by thermocouples and IR Thermography.
- Furnaces controllable for all internationally recognised time/temp fire curves.
- Rapid response capability.
- Comprehensive report.
- Range of furnaces available for wide test possibilities.



Microtherm® - cool answers to hot problems

 **MICROTHERM**
THERMAL INSULATION SOLUTIONS

Furnace / testing options

Vertical furnace with 2,400 mm x 1,600 mm (94 1/2" x 63") clear opening.

- Fire door testing (max. height of complete lift door for testing – 2,40 m (94 1/2").
- Wall / bulkhead testing.
- Any vertical panel testing.

Horizontal furnace with 1,800 mm x 1,200 mm (70 7/8" x 47 1/4") clear opening.

- Floor / deck testing. Also testing under load.
- Testing of fire safes, data recorders.
- Any testing of panels in horizontal position.

Mobile furnace, 1000 mm x 500 mm x 500 mm (39 3/8" x 19 5/8" x 19 5/8")

- General fire testing and thermal resistance testing.

Lenton electric furnace

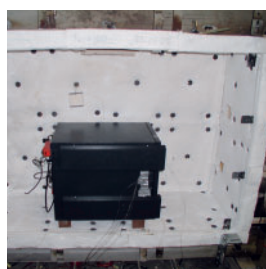
- Small scale testing.



Vertical furnace



Horizontal furnace



Mobile furnace



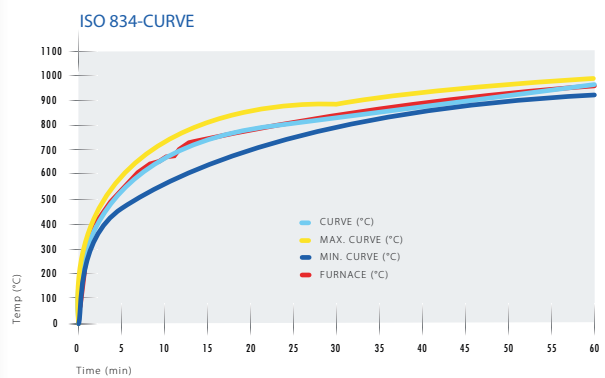
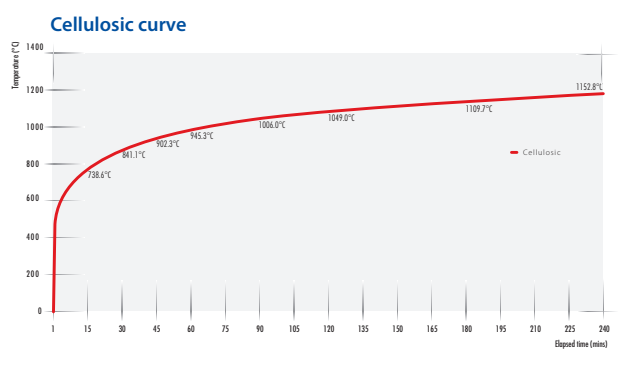
Lenton electric furnace

Temperature measurement

- Conventional thermocouples / chart recorder.
- IR Thermography.

Fire test profiles

All conventional internationally recognised fire test time / temp relationships including hydrocarbon.



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www.microthermgroup.com

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Fire test request form

Request filed by:	
Date:	
Customer:	
Full contact details:	

Date of test setup:	
Date of test:	
Attendees:	
Objective:	

Fire test type

Floor	<input type="checkbox"/>
Floor under load	<input type="checkbox"/>
Floor Bulkhead	<input type="checkbox"/>
Wall	<input type="checkbox"/>
Wall Bulkhead	<input type="checkbox"/>
Door	<input type="checkbox"/>
Lift door	<input type="checkbox"/>
Other:	

Other test type

Vibration test	<input type="checkbox"/>
Peel test	<input type="checkbox"/>
Glue test	<input type="checkbox"/>
Coating	<input type="checkbox"/>
Other:	

Fire curve

ISO 834	<input type="checkbox"/> (Same as EN1047/1 or UL72 curve)
Hydrocarbon	<input type="checkbox"/> (1100 °C)
Other:	
Test time	<input type="checkbox"/> 30min <input type="checkbox"/> 60min <input type="checkbox"/> 120min <input type="checkbox"/> Other:min

Price schedule for basic tests*

Small scale test	Price / Setup €1250 <input type="checkbox"/>
Full size test	Price / Setup €1750 <input type="checkbox"/>
Use of Infra Red camera for heat leakage control	Price / Setup € 250 <input type="checkbox"/>
Witness attestation	Price on demand
Total	€

*Additional costs may be incurred with increased complexity of temperature measurement or other special test requirements.

Price includes

- Set up of test
- Fire testing
- Official thermocouples as agreed
- Extra thermocouples as agreed
- Reporting
 - o Full description of the test and equipment
 - o Results with graphs
 - o Comments
 - o Conclusions
 - o Pictures before, during and after the test
 - o Infra red pictures on demand
 - o Witness attestation on demand

Completed fire resistance test application form should be returned to :

The Applications Group

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 Sint – Niklaas,
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