

# bespoke fire research & testing



**investigating fire behaviour whatever the situation**

[www.chilternfire.co.uk](http://www.chilternfire.co.uk)

[www.chilterndynamics.co.uk](http://www.chilterndynamics.co.uk)

[www.qmark.info](http://www.qmark.info)

## Chiltern International Fire is a leading provider of fire research, testing and consultancy.

Our technical expertise and specialist facilities enable us to build bespoke testing programmes for clients looking to understand and prove their products' behaviour in fire.

Bespoke programmes can range from small material tests to large carbonaceous fire investigations to help solve real-life fire safety problems that often fall outside the remit of already published testing standards.

We employ a team whose expertise lies not only in engineering disciplines, but more importantly, in innovative problem solving techniques. Close working relationships with fire and rescue services, UK industry experts, product specialists, international fire experts, and colleagues within the wider BM TRADA Group allow us to draw upon a broad range of skills, expertise and testing equipment.

In short, we can deal with almost any fire-related issue of any kind.

## Our bespoke fire research & testing services

Our flexible approach, expert knowledge and specialist facilities can be utilised to supply in-depth analysis, quantify risks and provide efficient, cost effective, proven solutions for special projects.

### Our services include:

- The design and operation of fire test research programmes including:
  - Specimen construction (from small desk top specimens to full size building structures)
  - Trained fire fighting cover for testing activities
  - Collection of data (which can include gas temperature, radiant heat exposure, gas analysis, photography and video recordings)
  - Third party test reports of the findings
- Working with trade associations to write new test methods
- Providing the facilities and construction of demonstration models for TV and film production companies to undertake the filming of fire tests
- Providing expert knowledge on a product's performance in fire, to include new fire fighting techniques and technologies and their fitness for purpose.
- Providing a venue and technical support for companies to showcase their products to the industry.



## Our testing facilities

Testing is carried out at specially designed fire test facilities in High Wycombe in Buckinghamshire, where we are able to purpose-build a wide range of structures to investigate fire behaviour in any given situation.

### Our facilities include:

- Residential fire facility
- Compartment fire behaviour units
- Multi-storey breathing apparatus live training facility
- Fire resistance furnaces (1m<sup>3</sup> furnace and 3m x 3m furnace)
- EN ISO 11925-2 Single flame source test
- EN 13823 Single burning item test
- ISO 5660-1 Cone calorimeter
- Desktop furnace
- Weather chambers
- 10m x 10m x 6m burn hall
- External test yard

## Work credentials & industry experience

Our international client base includes some of the biggest names together with specialists and individuals from the following fields:

- Fire suppression
- Fire detection
- Construction
- Engineering
- Transportation
- Motorsports
- Communications
- TV, media and film
- Building design
- Fire & rescue services (inc. military and private services)
- Petrochemical industry
- Insurance sector
- Power stations
- Energy service providers

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### **Chiltern International Fire**

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