

## Bodycote warringtonfire: UK Reaction to Fire Testing Capabilities



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Bodycote warringtonfire are able to provide a large number of reaction to fire testing services at our UKAS accredited Warrington laboratory (ISO 17025). Some examples are:

### Building Regulation Material Testing To UK And European Regulations

EN 13501

- EN ISO 1182 (Non-combustibility)
- EN ISO 1716 (Bomb calorimeter)
- EN 13823 (Single burning item – SBI)
- EN 11925 (Ignitibility)
- EN 9239 (Spread of flame test – floor coverings)
- EN 1187 (Roof tests)

UK building regulations

- BS 5803 (Thermal insulation flammability)
- BS 476 Part 3 (Roof test)
- BS 476 Part 4 (Non-combustibility)
- BS 476 Part 6 (Fire propagation)
- BS 476 Part 7 (Surface flammability)
- BS 476 Part 11 (Limited flammability)
- BS 476 Part 12 (Ignitibility)

French building regulations

- NF P 92-501-7 (M rating flammability)

### Shipping Industry Material Testing To International Regulations

IMO MSC 61(67) testing

- EN ISO 1716 (Bomb calorimeter)
- IMO MSC 61(67) Part 1 (Non-combustibility)
- IMO MSC 61(67) Part 2 (Smoke and toxicity)
- IMO MSC 61(67) Part 5 (Surface flammability)
- IMO MSC 61(67) Part 6 (Surface flammability)
- IMO MSC 61(67) Part 7 (Textiles)
- IMO MSC 61(67) Part 8 (Furniture)
- IMO MSC 61(67) Part 9 (Bedding)

### Cable testing

- BS 6387 (Circuit integrity)
- IEC 60331 (Circuit integrity)
- EN 50200 (Circuit integrity)
- IEC 60754 (Toxicity – halogen content / pH & conductivity)
- EN 50267 (Toxicity – halogen content / pH & conductivity)
- EN 50305 (Rolling stock code)
- EN 50306 (Rolling stock code)
- IEC 60332 (Small scale cable ignitibility and large scale cable propagation)
- EN 50266 (Small scale cable ignitibility and large scale cable propagation)
- EN 60695 (Glow wire)
- EN 61034 (Smoke density)

### Aircraft testing

- ABD 0031 (Airbus applications)
- BSS (Boeing applications, eg. BSS 7238 smoke and BSS 7239 toxicity)
- FAR/JAR/CS 25.853 (Regulations for airworthiness)

### Rolling Stock Material Testing To UK And European Regulations

BS 6853 and LUL 1-085

BS 476 Part 6 (Fire propagation)

BS 476 Part 7 (Surface flammability)

EN 9239 (Spread of flame test – floor coverings)

BS 6853 Annex B.1 and B.2 (Toxicity)

BS 6853 Annex D.8.3 / D.8.4 / D.8.5 / D.8.6 and D.8.7 (Smoke density)

ISO 4589 (Limited oxygen index and temperature index)

IEC 60332 (Small scale cable ignitibility and large scale cable propagation)

ISO 5660 (Cone calorimeter)

NF F 16-101/2

NF X 10-702 (Smoke test for F rating)

NF X 70-100 (Toxicity test for F rating)

ISO 4589 (Oxygen index test for I rating)

EN 60695 (Glow wire test for I rating)

NF P 92-501-7 (Flammability test for M rating)

UIC 564-2 Appendix 13 (Fire resistance of seats)

NF C 32-070 (Flammability test for cables)

UIC 564-2

Appendix 5 (Fire resistance of textiles)

Appendix 6 (Fire resistance of rubber door and window seals)

Appendix 7 (Fire resistance of materials by oxygen number)

Appendix 8 (Fire resistance of foam materials)

Appendix 9 (Fire resistance of electric cables)

Appendix 10 (Fire resistance of interconnecting gangway rubber flanges)

Appendix 11 (Fire resistance of rigid thermoplastic materials)

Appendix 12 (Fire resistance of floor coverings)

Appendix 13 (Fire resistance of seats)

prCEN / TS 45545-2

ISO 5660 (Cone calorimeter)

ISO 5658-2 (Spread of flame test)

EN 9239 (Spread of flame test – floor coverings)

ISO/TR 9705-2 (Room corner test)

prCEN / TS 45545 Annex A and B (Seat vandalism and heat release test)

ISO 5659-2 (Smoke density test)

prCEN / TS 45545 Annex C (Toxicity test)

NF X 70-100 (Toxicity test)

ISO 4589 (Oxygen index test)

EN ISO 11925-2 (Ignitibility test)

EN 50266 (Small scale cable ignitibility and large scale cable propagation)

EN 61034 (Smoke density of cables)

### Ministry of Defence material testing

Def Standards (NES)

Def Stan 02-711 (Smoke)

Def Stan 02-713 (Toxicity)

ISO 4589 (Limited oxygen index and temperature index)

BS 476 Part 6 (Fire propagation)

BS 476 Part 7 (Surface flammability)

### Automobile testing

FMVSS 302 (Flammability)

Directive 95/28/EC (Flammability)

BS AU 169a (Flammability)

ISO 3795 (Flammability)

### Miscellaneous testing

ISO 5660 (Cone calorimeter)

ASTM E662 (Smoke)

ASTM D2863 (Oxygen index)

UL 94 (Ignitibility)

ISO 9705 (Room corner)

Construction site testing and certification (In accordance with Joint Code for construction sites)

Textile testing

Ad-Hoc testing

If you require any other testing, please do let us know and we will do our best to help you.