

BS5867-2 type A, B & C

British FR Standard

FR

Principle

BS5867-2 type A, B & C standard – FR fabric test for British contract industry

Type A

The fabric is tested before and after cleaning.

A fabric sample is placed vertically on a metal frame. The metal frame has 2 measurement markers. A flame is applied to the fabric surface for 10 seconds.

The following parameters are observed:

- Time for flame to reach the first marker
- Time for flame to reach the second marker
- How close the flames burn to the edges of the metal frame

Type B

The fabric is tested before and after cleaning.

A fabric sample is placed vertically on a metal frame. A flame is applied to the fabric surface for 15 seconds.

The following parameters are observed:

- How close the flames burn to the edges of the metal frame
- Do burning droplets of fabric fall into the chamber and continue to burn

Type C (highest standard)

The fabric is tested before and after cleaning. (50 cycles of washing and/or dry cleaning)

A fabric sample is placed vertically on a metal frame. A flame is applied to the fabric surface for 5 seconds, 15 seconds, 20 seconds and 30 seconds.

The following parameters are observed for each flame application:

- How long the fabric continues to burn after the flame is distinguished (after flame)
- Is there an afterglow and how long does it last
- How close the flames burn to the edges of the metal frame
- Do burning droplets of fabric fall into the chamber and continue to burn

Results

Type A – the fabric passes this FR standard if:

- The first marker is not severed by the flame
- The flame does not burn through to the edges of the metal frame

Type B – the fabric passes this FR standard if:

- The flame does not burn through to the edges of the metal frame
- There are no burning droplets

Type C – the fabric passes this FR standard if:

- The after flame and afterglow do not exceed 2.5 seconds
- The flame does not burn through to the edges of the metal frame
- There are no burning droplets

