

NFPA701

USA FR Standard

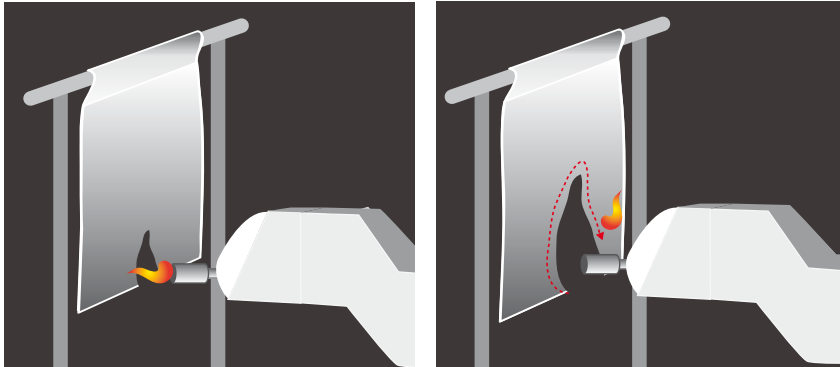
FR

Principle

A fabric sample is weighed before the test. The fabric is hung vertically on a metal bar in the test chamber. A methane flame is applied to the surface of the fabric for 45 seconds. This is repeated 10 times with the same size sample of the same fabric.

The following parameters are observed:

- How long the fabric continues to burn after the flame is removed (after flame)
- How long the burning droplets of fabric continue to burn after falling into the test chamber
- How much does the original fabric weigh after the flame is distinguished



Results

The fabric passes this FR test if for all 10 samples:

- The burning droplets do not continue to burn for more than an average of 2 seconds
- The average weight loss of the fabric is not more than 40%
- The after flame is recorded as a reference only and has no bearing over a pass or fail