

# Smouldering fire test methods for thermal insulation

In this FRIC report, fire test methods to document the potential for smouldering fires in thermal insulation are presented.

Standardized and non-standardized methods are presented:

- European standard EN 16733
- British standard BS 5803-4
- Nordic test method NT FIRE 035
- American standard ASTM C739 – 21a
- American test method 16 CFR 1209.7
- Canadian standard CAN/ULC-S129-15
- German standard DIN 4102-15 & -16
- Methods used in research & investigations

**What:** Test principles and assessment criteria for each method are presented. The report discusses factors impacting the outcome of tests as well as knowledge gaps.

**Why:** This may be used as a guideline on benefits and challenges with different methods.

**Who:** Industry, researchers, fire investigators and others may benefit from this overview, to ensure that a relevant method is chosen for each end-use.

**Full report:**

<https://fric.no/en/publications>

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