

BED BLANKET BURNING TESTER



Bed Blanket Burning Tester - ToronFT™ BBC

ToronFT™ BBC Bed Blanket Burning Tester is a precision instrument engineered to evaluate the flame retardant properties of bed blanket fabrics and the flame spread characteristics of the fabric surface. Using a standardized flame applied to the surface of a test specimen for a defined duration, the instrument enables accurate assessment of burning behavior, surface damage, and discoloration in bed blanket materials.

The stainless steel test chamber with frontal glass observation window ensures safe, real-time monitoring of the test, while the integrated digital timing system provides precise control of both burning and afterburning intervals. Evaluation is conducted in accordance with ASTM D4151 standards, making this instrument suitable for manufacturers and testing laboratories across North America and globally.

APPLICATIONS

Bed Blanket Burning Tester - ToronFT™ BBC Applications

- Flame retardant performance testing of bed blanket fabrics and bedding textiles
- Evaluation of flame spread properties on the surface of sleeping and bedding products
- Quality assurance testing for blanket and bedding manufacturers
- Compliance testing for residential and institutional bedding products
- Research into flammability and heat resistance of bed blanket materials



Standards

- ASTM D4151: Standard Test Method for Flammability of Blankets

FEATURES

Bed Blanket Burning Tester – ToronFT™ BBC Key Features

- Designed to evaluate flame retardant properties and flame spread of bed blanket fabrics
- Stainless steel test chamber with internal dimensions of 520mm (H) × 375mm (W) × 220mm (D)
- 12 ventilation holes with 12.7mm diameter on the chamber top for controlled airflow
- Glass observation window on the front panel for safe real-time monitoring
- Precision flame measurement ruler accurate to 1mm for consistent flame height setup
- Digital burning timer: 0 – 99.99 seconds, resolution 0.01 seconds, accuracy 0.1 seconds
- Digital afterburning timer: 0 – 99.99 seconds, fully adjustable
- Complies with the flame measurement requirements of ASTM D4151-2010 section 6.1.2

THEORY & METHOD

Theory and Method

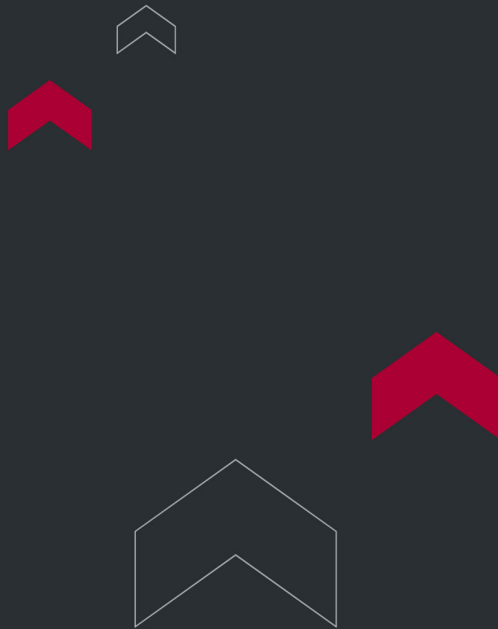
The ToronFT™ BBC assesses bed blanket flame retardancy by exposing the surface of a test specimen to a standardized flame generated within the enclosed stainless steel test chamber. The flame height is measured and set to the required value using the integrated flame measurement ruler, accurate to 1mm.

A controlled burning period is applied to the specimen surface, after which the flame is removed and the afterburning duration is recorded. The resulting burning, damage, and discoloration of the standard test paper placed beneath the specimen are evaluated against ASTM D4151 criteria. The precise digital timer — with burning timing from 0 to 99.99 seconds (resolution 0.01s) and afterburning timing from 0 to 99.99 seconds (resolution 0.1s) — ensures high measurement accuracy throughout the bed blanket test cycle.

TECHNICAL SPECIFICATIONS

Bed Blanket Burning Tester - ToronFT™ BBC Technical Specifications

Parameter	Specification
Test Chamber Dimensions	Height 520mm × Width 375mm × Depth 220mm
Chamber Material	Stainless steel
Ventilation Holes	12 holes, 12.7mm diameter (top of chamber)
Observation Window	Glass window on front panel
Flame Measurement Ruler	Accurate to 1mm
Burning Timer Range	0 - 99.99 seconds
Burning Timer Resolution	0.01 seconds
Burning Timer Accuracy	0.1 seconds
Afterburning Timer Range	0 - 99.99 seconds (arbitrarily adjustable)
Applicable Standard	ASTM D4151-2010



Torontech Inc.

251 Consumers Road, Suite 1200
Toronto, Ontario, M2J 4R3, Canada 

Phone: +1 416 368 2721 | Fax: +1 416 981 7652
Email: info@torontech.com

Torontech, LLC

601 Brickell Key Drive, Suite 700
Miami, FL 33131, USA 

Toll-Free: 1-866-383-7919
Email: sales@torontech.com

Torontech ME FZE

Meydan Grandstand, 6th Floor,
Meydan Road, Nad Al Sheba,
Dubai-261440, UAE 

Phone: +971 488 19252
Email: me@torontech.com

