



CARPET BURNING TESTER

Carpet Burning Tester - ToronFT™ CB

ToronFT™ CB Carpet Burning Tester is a robust, internationally compliant instrument for evaluating the flame retardancy and heat shrinkage resistance of carpets and floor covering materials.

Built to meet the requirements of ISO and British Standard test protocols, the instrument features a compact and durable test chamber constructed from asbestos tiles and structural steel, with a 45-degree mirror installed at the top for clear observation of the burning process. This carpet burning tester is suitable for a broad range of carpet types and applications, from residential to commercial and contract flooring materials.

APPLICATIONS

Carpet Burning Tester - ToronFT™ CB Applications

- Flame retardancy and carpet burning performance evaluation for residential and commercial carpets
- Heat shrinkage resistance testing of floor covering textiles
- Compliance testing for carpet materials sold in North American and international markets
- Quality assurance for carpet manufacturers and floor covering suppliers
- Laboratory testing of carpet performance under flame exposure conditions



Standards

- ISO 6925: Textile Floor Coverings: Burning Behaviour; Tablet Test at Ambient Temperature
- BS 6307: Method of Determination of the Effects of a Small Source of Ignition on Textile Floor Coverings
- BS 4790: Method for the Determination of the Effects of a Small Source of Ignition on Textile Floor Coverings (Hot Metal Nut Method)

FEATURES

Carpet Burning Tester - ToronFT™ CB Key Features

- Designed for carpet burning performance testing to detect flame retardancy and heat shrinkage resistance
- Single test station configuration for focused carpet specimen evaluation
- Test chamber dimensions: 380mm × 380mm × 380mm for standardized specimen containment
- Chamber walls constructed from asbestos tiles and steel insulating structures for thermal stability
- 45-degree viewing mirror installed at the top for safe in-situ observation of burning behavior
- Durable design suitable for repeated testing in industrial and research laboratory environments

THEORY & METHOD

Theory and Method

The ToronFT™ CB evaluates carpet burning performance by positioning a carpet specimen in the test chamber and applying a standardized ignition source according to the applicable test method. The test chamber, with internal dimensions of

380mm × 380mm × 380mm, provides a consistent enclosed environment that minimizes external drafts and variables.

A 45-degree mirror positioned at the top of the chamber allows the operator to observe and record the burning behavior of the specimen from above without disturbing the test environment. The chamber walls, constructed from asbestos tiles and steel reinforcement, ensure thermal stability and operator safety throughout the carpet burning test. The outcome is assessed based on flame spread extent, char area, and heat shrinkage of the specimen.

TECHNICAL SPECIFICATIONS

Carpet Burning Tester - ToronFT™ CB Technical Specifications

Parameter	Specification
Test Stations	1 station
Test Chamber Dimensions	380mm × 380mm × 380mm
Chamber Wall Construction	Asbestos tiles and steel insulating structures
Observation	45° tilted mirror at top of chamber
Applicable Test Standards	ISO 6925, BS 6307, BS 4790



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