

Flammability

Test Equipment

We can provide all of your flammability test equipment needs



Horizontal Flammability Test



Test-Rite Horizontal Enclosure



Most versatile Design on the Market

The Thermtech **Test-Rite** Horizontal Flammability Test Enclosure is used worldwide to conduct flammability tests to determine the burn resistance on interior materials for passenger cars, multipurpose passenger vehicles, trucks and buses. The Test Chamber conforms to the requirements of the US Federal Motor Vehicle Safety Standard 302 (FMVSS 302), DIN75200, SAE J and many other worldwide testing standards.

Test-Rite Functionality

The Thermtech **Test-Rite** Flammability Test Chamber provides testing laboratories with the most functional test enclosure on the market. Each unit is supplied with our unique specimen holder design that is equipped with four (4) threaded studs and wing nuts to allow the specimen to be firmly clamped in place. Additionally, each specimen holder is provided with machined reference lines located at one inch intervals to provide visual reference indicators to assist with calculating the burn rate. Unlike most designs, our enclosures are supplied with a front and side access door to simplify the installation of the specimen and clean-up.

Design Features

- Front and Side door access for easy access to enclosure interior
- Stainless Steel Specimen holder and Housing Enclosure
- Tempered observation glass
- Manual shut-off valve

Specifications

- | | |
|----------------------|---------------------------------|
| • ISO 3795 | • SAE J369 |
| • FMVSS 302 | • DIN 75200 |
| • Boeing BSS 7230 | • ASTM D5132 |
| • Airbus AITM 2.0002 | • FAR Part 25 Appendix F Part 1 |



Horizontal Flammability Test

*Most versatile design
on the market for less
cost than other designs*



Burner

- Each unit is supplied with a gas needle valve to adjust burner flame height
- ¼" FNPT gas connection with manual shut off valve
- Fixed mounted burner to ensure properly located flame position.



Specimen Holder Design

- Machined reference lines are provided every 1 inch to provide a visual reference to assist with calculating the burn-rate.
- Four (4) threaded studs with wing nuts are provided to assist with clamping down the specimen if needed.
- Heavy duty 3/8" thick stainless steel



Test-Rite Interior *(easy clean-up & Access)*

- Each unit is supplied with a front door and a side door for easy interior access to simplify the testing set-up and clean-up
- U-Frame holder has NO support legs obstructing the floor allowing for easy clean-up.



Vertical Flammability Test Enclosure



The Thermtech Vertical Flammability Test Chamber is designed for measuring the vertical flame spread for children's sleepwear, fabrics, aerospace materials and other textile materials or resilient filling materials used in upholstered furniture. The enclosure comprises of a draft free stainless steel housing with a large tempered glass observation window.

Standard Design Features

- Stainless Steel Housing and Specimen Holder
- Stationary vertical Bunsen Burner with needle valve flame height adjustment
- Manual ignition
- Tempered observation glass

Optional Features

- Burner Pilot with ignition tube (*1/4" flame height adjustment valve included*)
- Burner slide system that allows burner to be position in-place under specimen once enclosure door is closed and test is ready to be performed.
- Back enclosure wall painted black to assist with visually observing the flame.

Test Specifications

- ASTM D6413
- ASTM F1506
- FAR Part 25 Appendix F Part I (*requires optional features*)
- Boeing BSS 7230
- Airbus AITM 2.0002
- Federal Test Method 5903
- CPAI 84 – tent walls & top

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Horizontal Flammability Test

Vertical Flammability Cabinet Optional Features



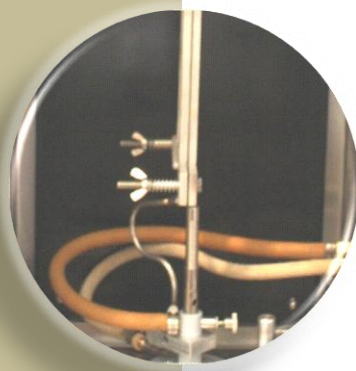
Feature (PT): **Bunsen Burner Pilot**

- The Bunsen Burner is equipped with a pilot ignition tube
- Includes a ¼" needle valve to adjust flame length
- Includes replacement thread on tip for easy future replacement



Feature (BBPT): **Bunsen Burner Position Trolley**

- The Thermtech Bunsen Burner Position Trolley allows the Bunsen to be pulled to one side of the enclosure in order to light the Bunsen Burner.
- Once the cabinet door is closed (With Bunsen Burner lit), the Bunsen Burner can be manual pushed into place from outside of the enclosure (with a push rod) underneath the specimen to begin performing the test.



Feature (PBS): **Painted Back Surface**

- Back surface of cabinet is equipped with a painted with a high temperature black surface insert.
- Allows the operator to have greater visibility on the the flame.
- The insert is constructed out of stainless steel and has broken edges to prevent warping.
- Can be easily removed in future to re-paint if needed.





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