

# QINSUN

Stable Reliable Consistent



## Vertical Flammability Tester G233



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## Vertical Flammability Tester— Material combustion performance evaluation

G233 Vertical Flammability Tester conforms to the test requirement of every standard , processing the the combustion performance testing on all kinds of textiles through the Simple operation . It is one of the necessary laboratory combustion equipment.Good repeatability can help manufacturers control production effectly and test the product performance .

### G233 Vertical Flammability Tester

1. Combustion performance Testing of children's pajamas, decorative fabrics, industrial fabrics (such as tent fabric, fire products fabric) and other Textile , but also for the elastic filler material flame retardant performance test. All stainless steel combustors, transparent observation windows and standard burners with flame feet. Control box can record after-glow time, and after-flame time . The results can be used to assess the flame spread speed and damage length of the material in the vertical state .
2. The design of electrical control and combustion chamber separation keeps away from the fire source , safe and stable, while ensuring that the electrical control part precisely controls the ignition time and records the spread time.



### Standards compliant

- GB/T 5455 Textiles—Burning behaviour—Determination of damaged length, afterglow time and afterflame time of vertically oriented specimens;
- ASTM D6413 Standard Test Method for Flame Resistance of Textiles (Vertical Test);
- DOC FF 3-71 Standard for The Flammability Of Children's Sleepwear
- CALIF TB-117 Test Procedure and Apparatus for Testing the Retardance of Resilient Filling Materials Used in Upholstered Furniture
- CPAI-84 A Specification for Flame-resistant Materials Used in Camping Tentage
- FTMS (Federal Test Method Standard) 191-5903 Standard Test Method for Flame Resistance of Textiles (Vertical Test)

## G233 Vertical Flammability Tester—— Several Major Features



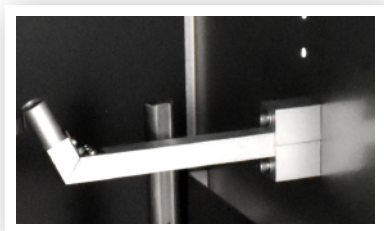
### High degree of automation

Both the External gas control and timing device use the fire source separation design ,which are safe and reliable. It has gas finetuning and coarse adjustment function;Automatic ignition and manual ignition are available in multiple modes.



### time recording module

High precision digital display timer with 0.1s accuracy and built-in standard 12s ignition time automatically records the continuous burning time and smoldering time.



### Equipped with horizontal burner

The instrument is equipped with a horizontal device burner. In addition to the vertical combustion test, it can also be used as a horizontal method to meet more test standards. besides, the front safety door of the device is convenient for placing the sample; the front heat-resistant glass observation window can directly observe the flame spread state.



### flexible sample holder positioning design

Varietal sample holders and test accessories are available; The clamping design makes it unaffected by the thickness of the material. There are also horizontal burner optional, multi - functional design accessories, meet the requirements of different testing standards.



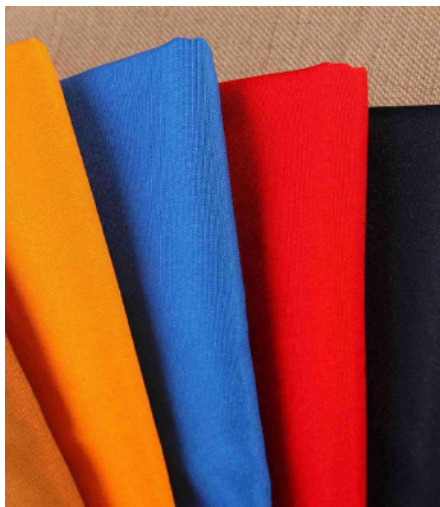
### diversiform ignition mode

The instrument's torch is equipped with an oxygen mixing damper to adjust the temperature of the flame. It is also equipped with a flame height gauge to observe the flame height at any time. The operation is simple and convenient.



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## G233 Vertical Flammability Tester—— Field Application



G233 Vertical Flammability Tester is Easy to use; high efficiency test, separate design of fire source and gas control system, stable and reliable, can make the combustion test in the laboratory more safe, suitable for flame retardant cotton, tents, children's sleepwear, polymer materials, textiles, etc. Flame retardant performance test.



It is applicable to the performance verification of new products, quality control of the production department, and the of material properties for the third-party testing organization, the product performance verification laboratory, and the quality and technical supervision department, etc.

## G233 Vertical Flammability Tester—— Configuration parameter

### Standard configuration



23301

FTMS 191-5903 sample clamp/set  
(textiles test) equipped with  
4 pcs 2 inch Stainless steel clip



23302

2 inch stainless steel clip



23303

test weighs  
(0.12LB;0.25LB;0.5LB;0.75LB;1LB)/set



23304

igniter



23305

silicone tube (0.8m) /black



23306

Blast burner

### Optional Accessories



23307

anchor ear(8-16)



23308

DOC-FF3/71  
child pajamas sample clip /stainless steel



23309

CALIF TB-117  
test sample clamp/set

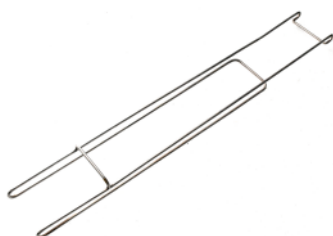
## G233 Vertical Flammability Tester—— Configuration parameter

### Optional Accessories



23310

CALIF TB-117 test weights  
(50g,100g,200g,350g)/set



23311

Sponge test sample clamp



23312

Horizontal gun/flame ruler included

## Technical Parameters

|   |   |
|---|---|
| The ventilation hole (both sides):12.7mm×6/each side  | Burning timer:timer (accurate to 0.01s)     |
| The exhaust hole (top)φ12.7mm×16  | Horizontal Burner angle:25° (with vertical) |
| Observation Window:Transparency   | Horizontal Burner :movable,caliber 10mm     |
| Standard flame height:38mm  | External Dimensions :330mm×360mm×836mm      |
| Textile sample holder:U-shaped stainless steel plate<br>two: 422mm × 89mm × 2mm<br>(inner frame 356mm × 51mm) | Chamber Dimensions :329mm×329mm×767mm       |
|   | Weight:35Kg                                 |
| The ignition time:12S;  | Power Supply:220V 50HZ                      |



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