

# QINSUN

Stable Reliable Consistent



## Horizontal Combustion Tester G233F

## Horizontal Flammability Tester — —Material combustion performance evaluation

G233F/Horizontal Flammability Tester -Obtains the flame spread tendency and rate during the burning of materials by the time it takes to burn a certain distance through a test ,and classifies the flammability of the product with which to evaluate the flame retardant performance of the material .Experimental data with good repeatability can help manufacturers control production effectively and test the product performance .

### G233F Horizontal Flammability Tester

1、 suitable for testing the flame-retardant properties of the leather interior materials, polymer materials and textiles used in motor vehicles,public transport, trucks, small cars, including cushions, seat back, seat belts, cars Roof lining, handrails, decorative panels, head restraints, floor coverings, sun visors, curtains, hoods and other interior parts of the flame retardant test. It provides basis data for the development of new materials ,product quality inspection and etc.

2. Separate design of electrical control and combustion chamber separation keeps away from fire , safe and stable, while ensuring that the precise control of ignition time in the electrical control part and records the spread time.



### Standards compliant

QB /T2729 Leather. Physical and mechanical- Horizontal Flammability Test

ASTM D5132 Standard Test Method for Horizontal Burning Rate of Polymeric Materials Used in Occupant Compartments of Motor Vehicles

SAE J369 Flammability of Polymeric Interior Materials—Horizontal Test Method

FMVSS 302 Flame retardancy of interior materials for cars, utility vehicles, trucks and buses

ISO/NP 17074 Leather - Physical and mechanical tests - Determination of resistance to horizontal spread of flame

ISO 3795 Road vehicles, and tractors and machinery for agriculture and for forestry - Determination of burning behaviour of interior materials

DIN 75200 Determination of combustion performance of materials used in automotive internal equipment

## G233F Horizontal Flammability Tester— Several Major Features



### flexible sample rack design

According to the different requirements of different standards, provide different stainless steel sample rack and collecting disc to meet the actual needs of different users



### Separate design

The Separate design of electrical control and combustion chamber separation keeps away from fire , safe and stable, while ensuring that other precise control of ignition time in the electrical control part, and record the spread time.



### Movable cover plate

The instrument can be opened from the removeable top cover and the side-opening door. The two kinds of sample installation make it easy to place the sample; The flame spread state can be observed directly through the front heat resistant glass observation window.



### Stainless steel sample rack

The stainless steel sample rack, equipped with refractory steel wire, will not rust and can be free to clean with long service life.



### diversiform ignition mode

The ignition modes of the instrument includes manual mode and automatic mode. the torch equipped with oxygen mixing damper can adjust the flame temperature, and it is also equipped with automatic timing function which is easy to operate.



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## G233F Horizontal Flammability Tester—— Field Application



G233F Horizontal Flammability Tester is easy to use and efficient to test. The separate design of fire and gas control systems which is stable and reliable makes the combustion test in the laboratory safer. It is suitable for testing the flame retardant performance of leather interior materials, polymer materials and textiles used in motor cars, public transportation vehicles, trucks and small cars.



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.



## G233F Horizontal Flammability Tester—— Configuration parameter

### Standard configuration



233F01

sample clamp/stainless steel (set)



233F02

igniter



233F03

silicone tube (0.8m) /black



233F04

anchor ear (8-16)

### Optional Accessories



233F06

Refractory steel wire



233F07

automatic controller



233F08

blowtorch

## Technical Parameters

Ventilation slot: height13mm	Standard flame height:38mm
Vent Hole (bottom): $\phi 19\text{mm} \times 10$	Collection plate dimension :55mm $\times$ 119mm $\times$ 19mm
Observation window width:330mm	Lit time:15S
Overall size of sample rack: 255mm $\times$ 200mm $\times$ 170 mm	diamension (LxWxH) :390mm $\times$ 200mm $\times$ 390mm
Sample fixture: U type, 355 $\times$ 25 $\times$ 10 mm, the inside margin50mm	Support wire: $\phi 0.25\text{mm}$ , heigh temperature wire, spacing25mm
Flame box dimension:368mm $\times$ 216mm $\times$ 356mm	Weight:31Kg
Burn timing:timer (accurate to 0.1s)	Power:220V 50HZ



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