

CINSUN

Stable Reliable Consistent



Glow-wire tester F242



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F242 Glow-wire tester

— Evaluation of combustion properties of materials such as electronic devices

F242 Glow-wire tester, By simulating the thermal stress caused by heat source or ignition source such as hot component or overload resistor in a short period of time, so as to test the flammability and ignitability of circuit component, which is widely used in electronic and electrical, household appliances, household and industrial lighting, electrical insulation materials and so on. And, it can predict the safety during use of circuits, effectively control production and verify product performance.

F242 Glow-wire tester

1. During the use of electrical materials, it may reach excessive temperature and cause fire hazard due to overload, short circuit, poor electrical contact or other fault conditions. The glowing-wire test refers to a simulated an overloaded resistance heat source to apply thermal stress to the sample in a short period of time. The fire risk of the sample is assessed by observing the light-off state of the sample and measuring relevant indicators.

2. After the heating wire of the specified material and shape is heated to the test temperature (550°C - 960°C) with a large current by the glow-wire test device, so as to confirm that the temperature does not fluctuate obviously within 60 seconds, and the test piece is burned vertically for 30 s at a specified pressure (1.0 N). Measure the ignition hazard of the finished electrical and electronic equipment according to whether the test materials and the mats are light-off or holding time. It can measure the light-off property, light-off temperature, flammability and flammability index of solid insulating materials and other solid combustible materials.



Standards compliant

GB/T 5169.10-2006;EC 60695-2-10-2013:Fire hazard testing for Electrical and electronic products -- Part 10: Glowing-wire / Hot-wire based test method, Glowing-wire apparatus and common test procedure.

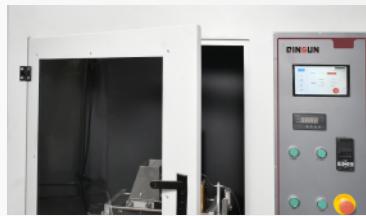
GB/T 5169.11-2006/IEC 60695-2-11-2000: Fire hazard testing for Electrical and electronic products - -Part 11: Glowing-wire/Hot wire basic test method, Glowing-wire flammability test method for finished products.

GB/T 5169.12-2006/IEC 60695-2-12-2000; Electrical and electronic products ,Part 12: Glowing-wire/Hot-wire based test method, Glowing-wire flammability index (GWFI) test method for materials.

GB/T 5169.13-2006/IEC 60695-2-13-2000; Electrical and electronic products ,Part 13: Glowing-wire/Hot-wire basic test method, Glowing-wire flammability (GWFI) test method.

UL746A ;

F242 Glow-wire test device—— Several Major Features



Transparent safety door

The heat-resistant glass observation window allows the test to be observed at any time during the test while keeping the test free from external environmental disturbances.



Automatic heating, illumination, exhaust device

Glowing-wire automatic heating timing, equipped with automatic control of the glowing-wire contact position, precise control, convenient and reliable, and the test device is equipped with lighting and exhaust.



Intelligent touch screen control panel

The microcomputer control system is more efficient and reliable, and the programmable 7-inch color LCD touch screen realizes various functions such as control, detection, calculation and data display.



Stepping motor control - accurate moving speed

The moving speed of the sample is controlled by high-end stepping, which has high precision and long service life. In addition, the test device is equipped with flame ruler, and the flame height can be observed at any time during the test.



Sample rack dis-assembly type design

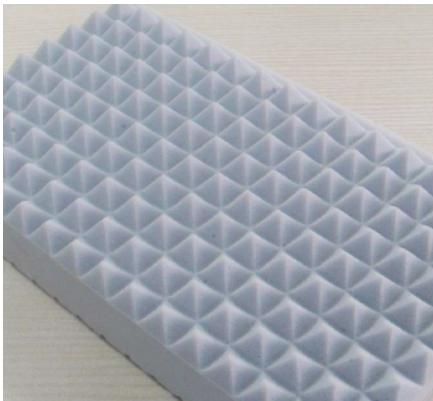
The sample holder of the test device can be removed for loading and cleaning, and it uses physical pressure, which has precise pressure, convenient operation and high efficiency.

F242 Glow-wire tester — Field Application

It is used in the evaluation of flammability tests and light-off temperature tests for electrical equipment and its components and accessories, as well as solid electrical insulating materials or other solid flammable materials.



It is used for the test of ignition hazard of electronic and electrical products, the evaluation of hot burning performance and the test of high temperature resistance.



It is used to determine the light-off property, light-off temperature, flammability and flammability index of solid insulating materials and other solid combustible materials.



It is used to test flame retardant properties for the insulated enclosure of household appliances, switch panels, printed circuit boards, and insulating materials.



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



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F242 Glow-wire tester — Configuration parameter

■ Standard configuration ■■■



24201

Glowing-wire / $\frac{1}{4}$ nickel chrome



24302

Thermocouple / $\frac{1}{4}$ (K type armor)



24203

Weights/0.5N



24204

Sample holder

F242 Glow-wire tester — Configuration parameter

Optional Accessories



24205

Wooden backing board



24206

Cotton pads / 100% absorbent cotton

Technical Parameters

Enclosure: It is equipped with observation window, inner black fireproof material coating.	special standard ring, horizontal static
	Temperature sensing delay: 1.7S
Control screen: Intelligent touch	Transformer parameters: 500VA, secondary: 2.5V, 150A
Observation window: transparent	Sample load: $1.0N \pm 0.1N$
Test speed: 10mm/s~25mm/s adjustable	Glowing depth: 0~9mm can be preset,
End of test: buzzer sounds, test piece automatically detaches	which is controlled by high-precision stepper motor.
	Glowing time: 0~99s
Test cabinet size: 885mm×580 mm×1000 mm	Effective volume of the test area : $\geq 0.5m^3$
Pressure limiting depth: 7mm	Exhaust pipe diameter: 100mm
Test temperature: room temperature~999°C (adjustable)	Physical dimension: 1000mm×650 mm×1250 mm
Glowing-wire material: φ4mm, Ni/Cr (80/20),	Weight: 90kg
Temperature measuring element: armored K-type thermocouple (φ0.5mm), -200~1300°C, precision 1°C	Power supply: 220V 50Hz



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