

EB03 / EB05 GLOW-WIRE APPARATUS
TECHNICAL DATASHEET

The best method for testing electro technical products with regard to fire hazard is to duplicate exactly the conditions occurring in practice. In most instances, this is not possible. Accordingly, for practical reasons, the testing of products with regard to fire hazard is best conducted by simulating as closely as possible the actual effects occurring in practice.

Parts of insulating material or other material which are liable to propagate flames inside the equipment may be ignited by glowing wires or glowing elements. Under certain conditions (for example, a fault current flowing through a wire, overloading of components, and bad connections), certain elements may attain a temperature such that they will ignite parts in their vicinity. The prescribed maximum temperature of 960°C is reached by the glow wire.


EB03

EB05
EB03
Standard configuration:

- Motor driven Carriage sliding system for the test-sample advancement
- Stainless steel sample holder mm 70x15x120
- Device with weights to apply the required contact pressure between the test specimen and the heating element
- Type K thermocouple (Ø mm1,0)
- 4 mm dia. NiCr Wire
- Touch screen Control board showing both wire temperature, time of test and Voltage
- Programmable test sequence time
- Starting button for the motor-driven carriage
- Collecting tray
- Safety guard of the incandescent thread
- Wood tablet and cotton paper

-Apply the apparatus under a fume extraction hood or inside a laboratory hood equipped for handling.

-The verification of the glow wire temperature measuring system uses a one-point measurement based on the melting temperature of silver foil.

Main features:

- Motor-driven carriage to move the specimen support at a speed range of 10 - 25 mm/sec
- 0,95N ± 0,1 N pre-loaded contact force of the test specimen against the glowing wire

General:

- Overall Dimensions: mm 600 x 300 x 600 h max
- Weight: 32 kg
- Power consumption: 700 W
- Power supply: 230V, 50Hz

EB05
Standard configuration:

- Steel test chamber volume approx 0.5 cum with inner part painted in black to guarantee the required lux level
- Safety glass
- Upper part designed for connection to a fume exhaust system
- Internal lighting
- Automatic, motor-operated carriage sliding system
- Stainless steel sample holder mm 70x15x120
- 4 mm dia. NiCr Wire
- Type K thermocouple (Ø mm1,0)
- Control board including:
 - Touch screen Control Board which shows wire temperature, time of test and voltage
 - Programmable test sequence time
- Start and stop push-buttons, warning lights
- Collecting tray
- Wood tablet and cotton paper

General:

- Overall Dimensions: mm 800 x 650 x 1100 h
- Weight: 90 kg
- Power consumption: 700 W
- Power supply: 230V, 50Hz

Code	Model	Description
10095203	EB03	Glow wire apparatus
10095205	EB05	Glow wire with Cabinet
10004002		Silver (20pz) Certificate of analysis

Reference standards

IEC	60695-2-10 /2-11/2-12/2-13
VDE	0471

