



GLOW WIRE



DESIGN AND PRODUCTION OF
INSTRUMENTS AND APPARATUS
FOR QUALITY CONTROL
ON MATERIALS

These instruments are made in
compliance with CE health and
safety requirements



Glow Wire - code 6447.000

INTRODUCTION

The best way to test plastic or re-inforced material used in electrical or electronics application against fire hazard is, obviously, the exact laboratory recreation of the practical work conditions.

Since this is not always possible, the tests related to fire hazard are generally carried out by a simulation of the effects that happen in real work conditions.

The parts of electrical or electronic devices (or electronic boards) that can be dangerous for the device itself or for others in the vicinity, must be able to support a certain amount of heat and fire that may be generated inside of them.

The Ceast Glow Wire apparatus was designed to simulate according international standards, these conditions and the related thermal stresses to evaluate the risk of fire.

The Ceast Glow Wire apparatus is equipped with a resistive wire, electrically heated at a specific temperature and a calibrated thermocouple to ensure standard temperatures at standard test time.

Test method

The specimen, with dimensions according to standards is assembled onto a movable carriage in a vertical position.

A resistor with a pre-determined adjustable temperature and accurate control is positioned in a horizontal movable support.

A calibrated thermocouple verifies the temperature, indicated on a digital display, of the resistor.

The resistor can apply a contact force on the tested specimen between 0,8 and 1,2 N.

The test procedure includes some cycles with test times that the operator should follow in accordance with the standard specifications.

A container recovers the residual burnt specimen parts after tests.

Standard

The instrument is designed and built to meet the following standards:

IEC 695-2-1/0, IEC 695-2-10, VDE 0471

and other equivalent standards.

Technical description

- Cabinet Glow Wire apparatus complete with service frontal panel
- Movable device mounted in the bottom of cabinet apparatus including carriage specimen support, flame height scale, resistive wire, set of weight to apply contact pressure between heating element and specimen, thermocouple support, and electrical connection
- Specimen support dimensions 70 x 15 x 120 mm
- Ni-Cr heating element for temperature up to 960°C
- Calibrate thermocouple K type for test temperature read-out
- Variable transformer, max. 700 VA
- Digital amperometer indicator
- Digital thermometer
- Electrical circuit with ancillary part

Technical Data	
Overall dimensions (LxDxH) (mm)	500 x 400 x 800
Weight (kg)	15 approx.
Supply	230 V - 50 Hz - Singlephase (110 V - 60 Hz on request)
Power (W)	500
Paint	fuchsia RAL 4006 - gray RAL 7035

"Due to the continuous development policy of CEAST's Research and Development Department, changes may be introduced without notice"



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