



INCANDESCENT PIN



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



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



Introduction

The apparatus can check if a specimen, heated to a determined test temperature by a heating element (Pin) passing through it, develops inflammable gases.

The combustion primer is provided by two electrodes sparking at a determined frequency.

The two electrodes are positioned at a predetermined angle and distance from the test specimen.

This, type of determination is applicable to all thermosetting or thermoplastic materials, or similar, used in the manufacture of components subjected to heating by contact such as connectors, electric plugs, terminals, insulators etc. The combustion priming is therefore dependent on the inflammable gases produced.

Standards

Designed and built to meet the following standards:

CEI norms 3. 3. 18. vol. 247.

CEI 3. 3. 18 vol 247 (Par. B) "Resistance to flame test".
and other equivalents.

Technical Characteristics

- Temperature regulation
 - Test temperature preset at fixed value +300°C or
 - Test temperature preset at variable value between +20° and +400°C dimensioned according to norms, capable of reaching +300°C in 3' (or other value in the thermic range in a time "t").
- Test Pin
 - approx 4 sec. priming
 - approx 4 sec interruption.
- Electrodes cycle, automatic, for priming:
 - counterweight system to give a contact between Pin and specimen equivalent to 12 N load
- High frequency generator for priming
 - a base, incorporating the electrical circuit and the body of the apparatus or testing system.
- The apparatus consists of
 - epoxy varnished, air bubble and adjustable screw-feet for levelling the apparatus.
 - in insulating material
 - arm and clamp
 - in stainless steel, incorporating thermocouple to register temperature during heating.
 - adjustable arm with micrometric screw
 - consisting of rocker arm, zero index, rod for supplementary weights used and their dimensions are designed so as to give the contact load N as prescribed by the norm
- Steel cabinet
 - insulated, in Teflon complete of connectors and conductors to fit generator-high frequency and to automatic tinner for test cycle
- Working surface
 - Time and heating switch and pilot lamp
 - Test cycle switch and pilot lamp
 - Indicator pyrometer, regulating pre-set limit of test temperature
 - Regulator for heating up rate of incandescent Pin.
- Support for incadescent Pin,
 - Time and heating switch and pilot lamp
 - Test cycle switch and pilot lamp
 - Indicator pyrometer, regulating pre-set limit of test temperature
 - Regulator for heating up rate of incadescent Pin.
- Pin
 - Time and heating switch and pilot lamp
 - Test cycle switch and pilot lamp
 - Indicator pyrometer, regulating pre-set limit of test temperature
 - Regulator for heating up rate of incadescent Pin.
- Specimen's support,
 - Time and heating switch and pilot lamp
 - Test cycle switch and pilot lamp
 - Indicator pyrometer, regulating pre-set limit of test temperature
 - Regulator for heating up rate of incadescent Pin.
- Contact system
 - Time and heating switch and pilot lamp
 - Test cycle switch and pilot lamp
 - Indicator pyrometer, regulating pre-set limit of test temperature
 - Regulator for heating up rate of incadescent Pin.
- All the materials
 - Time and heating switch and pilot lamp
 - Test cycle switch and pilot lamp
 - Indicator pyrometer, regulating pre-set limit of test temperature
 - Regulator for heating up rate of incadescent Pin.
- Electrodes supports
 - Time and heating switch and pilot lamp
 - Test cycle switch and pilot lamp
 - Indicator pyrometer, regulating pre-set limit of test temperature
 - Regulator for heating up rate of incadescent Pin.
- Control panel including:
 - Time and heating switch and pilot lamp
 - Test cycle switch and pilot lamp
 - Indicator pyrometer, regulating pre-set limit of test temperature
 - Regulator for heating up rate of incadescent Pin.
- Supplementary weight.
 - Time and heating switch and pilot lamp
 - Test cycle switch and pilot lamp
 - Indicator pyrometer, regulating pre-set limit of test temperature
 - Regulator for heating up rate of incadescent Pin.
- Mains cable
 - Time and heating switch and pilot lamp
 - Test cycle switch and pilot lamp
 - Indicator pyrometer, regulating pre-set limit of test temperature
 - Regulator for heating up rate of incadescent Pin.
- Overall dimensions
 - Time and heating switch and pilot lamp
 - Test cycle switch and pilot lamp
 - Indicator pyrometer, regulating pre-set limit of test temperature
 - Regulator for heating up rate of incadescent Pin.
- Supply
 - Time and heating switch and pilot lamp
 - Test cycle switch and pilot lamp
 - Indicator pyrometer, regulating pre-set limit of test temperature
 - Regulator for heating up rate of incadescent Pin.
- Mass
 - Time and heating switch and pilot lamp
 - Test cycle switch and pilot lamp
 - Indicator pyrometer, regulating pre-set limit of test temperature
 - Regulator for heating up rate of incadescent Pin.

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



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