



ARCVIS



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



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



Scope

The apparatus for arc resistance tests - at high-voltage and low current intensity - of insulating materials, enables to carry out the foreseen tests quite automatically. Cycles sequence, both at interrupted and continuous arc, is controlled and programmed by an electronic device, which prevents the operator to act manually and within the pre-fixed-times on the commutators. In such a manner the test gets developed according to the sequence established by the standards. Once the test is over, the operator just has to examine the specimen and see whether the surface involved between the electrodes shows a conducting continuous trace caused by high-voltage discharges. Tests can be performed on thermoplastic on thermosetting resins Hat specimens and on other insulating materials similar to them.

Standards

Designed and built to meet the following standards:

ASTM D 495

and other equivalents.

Technical Features

Characteristics of the automatic test cycle: Tests at interruptetd cycles						Continuous cycles tests				
N.	Cycle	Crrrent [mA]	Arc duration [s]	Inter. amongst the arcs [s]	Overall duration [s]	N.	Cycle	Crrrent [mA]	Arc duration	Overall duration [s]
1	1/8	10	1/4	1+3/4	60	4	10	10	Continuous	240
2	1/4	10	1/4	3/4	120	5	20	20	Continuous	300
3	1/2	10	1/4	1/4	180	6	30	30	Continuous	360
						7	40	40	Continuous	420

Technical Characteristics

Test performance

Test seat protection and its control

Electrodes used

Test angle

Distance amongst electrodes

Specimen support

Specimens dimensions

Location and test cycle control

Test times indication

Indicators instruments of test cycle

Apparatus calibration

wholly automatic according to foreseen sequence

obtained through a transparent cap linked to safety microswitch

interchangeable: tungsten bar, code 6280.042; stainless steel foil, code 6280.026; brass foil, code 6280.046

110° with set of tungsten electrodes; 40° with set of stainless steel electrodes

adjustable between 0-15 mm

adjustable heightwise se as to allow use of flat specimens at variable thickness

min. side: 12.7 mm; min. thickness: 3.17 mm

by means of a push-button the test sequence is immediately started; each of the seven cycles is signalled by an equivalent Led control lamp

through electronic seconds-counter that can be zero-set to 3 digits, 0 - 999 s

voltmeter: 0 - 250 V f.s.; milliamperometer: 0-50 mA f.s.

through push-button selector, code 6280/001

Technical Data

Overall dimensions (L x D x H) mm	585 x 330 x 575 approx.
Mass kg	47 approx.
Supply	230 V - 50 Hz - Singlephase 110 V - 60 Hz on request
Power kVA	1
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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