

Indian Standard

CAPACITORS FOR USE IN TUBULAR FLUORESCENT AND OTHER DISCHARGE LAMP CIRCUITS

PART 1 SAFETY REQUIREMENTS

1 SCOPE

This standard (Part 1) states the requirements for both self-healing and non-self-healing continuously rated ac capacitors of up to and including 2.5 kVAR, and not less than 0.1 μ F, having a rated voltage not exceeding 1 000 V, which are intended for use in discharge lamp circuits operating at 50 Hz and at altitudes up to 3000m.

It covers capacitors intended for connection in shunt or in series with the lamp circuit or an effective combination of these.

It covers only impregnated or unimpregnated capacitors, having a dielectric of paper, plastic film or a combination of both, either metallized or with metal foil electrodes.

This standard does not cover radio-interference suppressor capacitors the requirements for which are found in IS 3723 (Part 1) : 1978 'Capacitors for radio interference suppression: Part 1 General requirements and methods of tests'.

Tests given in this standard are type tests. Requirements for testing individual capacitors during production are not included.

NOTE — These lamps and associated ballasts are covered by IS 2418 (Part 1) : 1977 'Tubular fluorescent lamps for general lighting service: Part 1 Requirements and tests (*first revision*)', IS 9900 (Part 1): 1981 'High pressure mercury vapour lamps : Requirements and test', IS 9974 (Part 1) : 1981 'High pressure sodium vapour lamps: Part 1 General requirements and test', IS 15687 (Part 2) 'Single capped fluorescent lamps: Part 2 Performance requirements' (*under preparation*), IS 15885 (Part 2/Sec 8) : 2010 'Safety of lamp controlgear: Part 2 Particular requirements, Section 8 Ballast for fluorescent lamps' and IS 15885 (Part 2/Sec 9): 2010 'Safety of lamp controlgear: Part 2 Particular requirements, Section 9 Ballast for discharge lamps (excluding fluorescent lamps)' respectively.

2 REFERENCES

The following standards are necessary adjuncts to this standard:

<i>IS No.</i>	<i>Title</i>
10322 (Part 1) : 1982	Luminaires: Part 1 General requirements

IS No.

Title

11000 (Part 1/Sec 1) : 1984 (Part 2/Sec 2) : 1984 12063: 1987	Fire hazard testing: Test methods, Section 1 Glow wire test and guidance Test methods, Section 2 Needle flame test Classification of degree of protection provided by enclosures of electrical equipment
13703 (All parts) 15967(Part 2): 2011	Low voltage fuses for voltages not exceeding 1 000 V ac or 1 500 V dc Capacitors for use in tubular fluorescent and other discharge lamp circuits: Part 2 Performance requirements