

Indian Standard

CAPACITORS FOR USE IN TUBULAR FLUORESCENT AND OTHER DISCHARGE LAMP CIRCUITS

PART 2 PERFORMANCE REQUIREMENTS

1 SCOPE

This standard (Part 2) specifies 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 μF , 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 3 000 m.

NOTE — These lamps and associated ballasts are covered in the following Indian Standards:

- a) IS 2418 (Part 1) : 1977 'Tubular fluorescent lamps for general lighting service: Part 1 Requirements and tests'.
- b) IS 9900 (Part 1) : 1974 'High-pressure mercury vapour lamps: Part 1 Requirements and tests'.
- c) IS 1534 (Part 1) : 1977 'Ballasts for tubular fluorescent lamps: Part 1 For switch start circuits'.
- d) IS 6616 : 1982 'Ballasts for high pressure mercury vapour lamps'.

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 in this standard are type tests. Guidance on conformity of production is given in Annex A.

2 REFERENCES

The following Indian Standards are necessary adjuncts to this standard:

<i>IS No.</i>	<i>Title</i>
2500(Part 1) : 2000	Sampling inspection procedures: Part1 Attribute sampling plans indexed by acceptable quality level (AQL) for lot-by-lot inspection (<i>third revision</i>)

IS No.

Title

3723 (Part 1) : 1978	Specification for capacitors for radio interference suppression: Part 1 General requirements and methods of tests (<i>first revision</i>)
9000 (Part 14/ Sec 1 to 9) :1988	Basic environmental testing procedures for electronic and electrical items: Part 14 Test N: Change of temperature
15967 (Part 1) : 2010	Capacitors for use in tubular fluorescent and other discharge lamp circuits: Part 1 Safety requirements