

(PREVIEW)

Indian Standard

SAFETY REQUIREMENTS FOR INCANDESCENT LAMPS

PART 1 TUNGSTEN FILAMENT LAMPS FOR DOMESTIC AND
SIMILAR GENERAL LIGHTING PURPOSES

1 SCOPE

1.1 This standard (Part 1) specifies the safety and interchangeability requirements of tungsten filament incandescent lamps for general lighting service having:

- rated wattage up to and including 200 W;
- rated voltage of 50 V to 250 V inclusive;
- bulbs of the A, B, C, G, M, P, PS, PAR or R shapes (*see Note*), or other bulb shapes where the lamps are intended to serve the same purpose as lamps with the foregoing bulb shapes;
- bulbs with all kinds of finishes;
- caps B15d, B22d, E12, E14, E27 or E27/51 × 39.

NOTE — *See IS 14897* for description of the letter symbols. Associated traditional names are:

- Pear shape = A, PS
- Mushroom = M
- Candle = B, C
- Round bulb = P
- Globular = G
- Reflector = R
- Parabolic reflector = PAR

As far as is reasonably practicable, this standard is also applicable to lamps with bulbs and caps other than those mentioned above, but which serve the same purpose.

This standard specifies the method a manufacturer should use to show, that his product conforms to this standard, on the basis of whole production appraisal in association with his test records on finished products. This method can also be applied for certification purposes. Details of a batch test procedure, which can be used to make limited assessment of batches, are also given.

This standard is concerned with safety criteria only and does not take into account the performance of tungsten filament lamps with respect to luminous flux, life or power consumption characteristics. Readers should refer to IS 418 for such characteristics with respect to types normally used for general lighting service.

2 REFERENCES

2.1 The following standards are necessary adjuncts to this standard:

<i>IS No.</i>	<i>Title</i>
418 : 2004	Tungsten filament lamps for domestic and similar general lighting purposes (<i>fourth revision</i>)
2500 (Part 1) : 2000	Sampling inspection procedures Part 1: Attribute sampling plans indexed by acceptable quality level (AQL) for lot-by-lot inspection (<i>third revision</i>)
8913 : 1978	Method of measurement of lamp cap temperature rise
10276 (all parts)	Edison screw lamp holders
12948 : 1990	Tungsten halogen lamps (non-vehicles)
10322 (Part 1) : 1982	Luminaries : Part 1 General requirements
14897 : 2000	Glass bulb designation system for lamps—Guide