

INTERNATIONAL STANDARD

NORME INTERNATIONALE

AMENDMENT 2
AMENDEMENT 2

**Incandescent lamps – Safety specifications –
Part 3: Tungsten-halogen lamps (non-vehicle)**

**Lampes à incandescence – Prescriptions de sécurité –
Partie 3: Lampes tungstène-halogène (véhicules exceptés)**

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FOREWORD

This amendment has been prepared by subcommittee 34A: Lamps, of IEC technical committee 34: Lamps and related equipment.

The text of this amendment is based on the following documents:

FDIS	Report on voting
34A/1267/FDIS	34A/1285/RVD

Full information on the voting for the approval of this amendment can be found in the report on voting indicated in the above table.

The committee has decided that the contents of this amendment and the base publication will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

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1.2 Normative references

Add the following new reference to the list and delete from the Bibliography:

IEC 60432-1:1999, *Incandescent lamps – Safety specifications – Part 1: Tungsten filament lamps for domestic and similar general lighting purposes*

1.3 Definitions

Add, on page 13, the following new definition:

1.3.26 breakdown

plasma discharge between two points inside the bulb of the lamp with maximum difference of electrical potential

For the purposes of this standard it is assumed that breakdown has occurred if the current exceeds the rated current by a factor of 5 (under consideration).

Page 13

2.1 General

Add, after the last sentence, the following new sentence:

For the purposes of this standard, the voltage designations shown in IEC 60357 apply.

Page 15

2.2.2 Additional information and marking

Replace Note 2 of item b) with the following new note :

NOTE 2 In North America, a written notice may be used in place of this symbol.

2.3.1 General

Add the following new sentence after the second paragraph :

The G9, GU10 or GZ10 base shall be used for self-shielded lamps only.

Page 17

2.6 Safety at end of life of self-shielded lamps with rated voltages 50 V – 250 V

Amend the title of Subclause 2.6 as follows:

2.6 Safety at end of life of self-shielded lamps with rated voltages from range B or C

Insert, in the last paragraph between the first and second sentence, the following wording:

The test rack circuit characteristics shall be in line with Table E.1 of IEC 60432-1.

Modify the existing Note as Note 1 and add the following new Note 2:

NOTE 2 Some lamp designs are not suitable for testing with the induced failure test because a breakdown cannot reliably be achieved. Such lamps, provided they are of voltage range B or C, will be submitted to an operation-to-failure test as described above.

Table 1 – Grouping of test records – Sampling and acceptable quality levels (AQL)

Modify row 2.6 of the table rows as follows:

1 Sub-clause	2 Test	3 Type of test	4 Permitted accumulation of test records	5 Minimum annual sample per accumulation		6 AQL ^a %
				For lamps made most of the year	For lamps made infrequently	
2.6	Safety at end of life - Induced failure or - Operation to failure ^b - Induced failure or - Operation to failure ^b	Design	All lamps of all families	Use Clause D.3	-	-
		Periodic		Use Clause D.4	315	0,25

^a For the use of this term, see IEC 60410.

^b The operation to failure test is allowed in those cases where no reliable breakdown can be achieved. See also Note 2 to subclause 2.6.

Table C.4 – Maximum base-pin temperatures

Replace the existing table with the following new table :

Rated wattage	Temperature °C
≤ 20 W	220
> 20 W and < 50 W	250
≥ 50 W	300