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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 30422-2023

Replacing GB 30422-2013

**Fluorescent induction lamps(excluding self-ballasted lamps) -
Safety specifications**

无极荧光灯（自镇流灯除外）安全规范

(English Translation)

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Table of Contents

Preface
1 Scope
2 Normative references
3 Terms and Definitions
4 Requirements and Qualification Determination
Appendix A (informative) Schematic diagram of electrodeless lamp
Appendix B (normative) Insulation resistance test diagram
Appendix C (normative) Thermal test related information
Appendix D (normative) Maximum temperature rise at the measuring point and test method
Appendix E (informative) Information related to lighting design
Appendix F (informative) Ballast design information
Reference

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents" Drafting:

This document replaces GB 30422-2013 "Safety Requirements for Electrodeless Fluorescent Lamps": Compared with GB 30422-2013, except for structural adjustments and compilation in addition to editorial changes, the main technical changes are as follows:

---Changed the scope (see Chapter 1, Chapter 1 of the:2013 edition):

This document was drafted with reference to IEC 62532:2016 "Safety Specifications for Electrodeless Fluorescent Lamps", and the degree of consistency is not equivalent:

Please note that some content in this document may be subject to patents: The publisher of this document assumes no responsibility for identifying patents:

1 Scope

This document specifies the safety requirements for electrodeless fluorescent lamps for general lighting, including markings, mechanical and electrical connections, insulation resistance, electrical strength Requirements such as temperature resistance, heat resistance and flame retardancy, creepage distance and electrical clearance, temperature rise of measuring points, ultraviolet radiation, etc: are described, and the corresponding test

methods are described:

This document applies to the design, production and sales of electrodeless fluorescent lamps other than self-ballasted electrodeless fluorescent lamps:

This document does not apply to self-ballasted electrodeless fluorescent lamps:

Note: Self-ballasted electrodeless fluorescent lamp refers to a product that integrates a discharge cavity, an inductive power coupler, and a ballast:

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, the dated quotations for undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document:

GB/T 1406 (all parts) Types and dimensions of lamp holders (IEC 60061-1) GB/T 1483 (all parts) Inspection gauge for lamp holders and lamp holders (IEC 60061-3) GB/T 5169.10 Fire hazard test for electrical and electronic products Part 10: Glow wire/Hot wire basic test method Glow wire assembly Equipment and general test methods (GB/T 5169.10-2017, IEC 60695-2-10:2013, IDT) GB/T 5169.11 Fire hazard test for electrical and electronic products Part 11: Glow wire/Hot wire basic test method Ignition of finished products Hot wire flammability test method (GWEPT) (GB/T 5169.11-2017, IEC 60695-2-11:2014, IDT) GB/T 7000.1-2023 Luminaires Part 1: General requirements and tests (IEC 60598-1:2020, MOD) GB/T 19148 (all parts) Types and dimensions of lamp holders (IEC 60061-2) GB/T 19510.1 Light source control device Part 1: General requirements and safety requirements (GB/T 19510.1-2023, IEC 61347-1:2017, MOD) GB/T 21098 Lamp caps, lamp holders and gauges for testing their safety and interchangeability Part 4: Guidelines and general information (GB/T 21098-2022, IEC 60061-4:2018, IDT) GB/T 24392-2009 Measurement method of lamp head temperature rise (IEC 60360:1998, IDT)

3 Terms and definitions

The following terms and definitions apply to this document:

induction lamp

Assembly of low-pressure mercury discharge chamber and inductive power coupler:

A cavity containing at least low-pressure mercury vapor, which is excited through an inductive power coupler:

Note 1: The ultraviolet radiation generated by the discharge is converted into visible light by a layer of fluorescent material:

Note 2: The discharge chamber can be fixed on the inductive power coupler through various mechanical means: