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

GB 21554-2008

**Self-ballasted electrodeless fluorescent lamps for general
lighting services - Safety requirements**

普通照明用自镇流无极荧光灯 安全要求

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Foreword

All the technical contents of this standard is mandatory. Please note that some of the content of this standard may involve patents. The standard release mechanism should not bear the responsibility to identify these patents. The standard proposed by China National Light Industry Council. This standard by the National Standardization Technical Committee of electrical lighting (SAC/TC224) centralized. Drafting of this standard. Shanghai Hongyuan Lighting & Electric Co., Osram (China) Lighting Co., Ltd., Yuan Tak Holdings Limited The company, Zhejiang Chen Hui Lighting Co., Ltd., Beijing Institute of electric light. The main drafters of this standard. Li Weide Wang Aiqun, Liu Jianping, Xu Jianguang, Zhaoguo Song, Lu Guangming, Yang Zheng, Zhao Xiurong, Jiang Shan. This standard was first published. General lighting self-ballasted electrodeless fluorescent lamps Safety requirements

1 Scope

GB 21554-2008 is the Chinese national standard on self-ballasted electrodeless fluorescent lamps for general lighting services - safety requirements, in the field of electrical engineering. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 24 March 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 March 2009. Classification: ICS 29.140.30, CCS K71. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This standard specifies the use of screw and bayonet cap at the rated voltage of 220V,

50Hz frequency of the power supply voltage will be used for general lighting Stability control start and ignition components integrated as one of the safety requirements Promise fluorescent lamps. This standard specifies the safety and interchangeability requirements of such lamps, as well as test methods and test conditions for eligibility determination.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 1406.1 lamp types and dimensions - Part 1. screw-on cap (GB/T 1406.1-2008, IEC 60061-1. 2005, MOD)

GB 1407 bayonet cap of the type and size (GB 1407-1996, eqv IEC 60061-1Q.1994)

GB/T 1483.1-2008 Lamp caps Gauges - Part 1. screw-on cap, the amount of lamp holder gauge (IEC 60061-3. 2004, MOD)

GB/T 1483.5-2003 lamp holder, lamp holder gauge Part 5. The bayonet lamp holder gauge (

IEC 60061-3. 2002,

Lamp caps and holder together with gauges for the control of interchangeability and safety- Part 3. Gauges, MOD)

GB/T 5169.10-1997 Fire hazard testing for electric and electronic products Test methods - Glow - wire test methods - General (Idt IEC 60695-2-1/0.1994)

GB 17935 screw lampholders (GB 17935-1999, idt

IEC 60238.1996) QB/T 2512 cap temperature rise measurement method (QB/T 2512-2001, idt IEC 60360.1998)

3 Terms and Definitions

The following terms and definitions apply to this standard.

3.1 And one without electrodes, electromagnetic coupling manner to provide a low-pressure mercury vapor discharge energy fluorescent lamps.

3.2 Promise containing fluorescent lamp, ballast, lamp and make it as one of the coupling coil, which lights when not in damage to its structure can not be Disassembly.

3.3 With the same rated electrical characteristics, the same geometry of the light.

3.4 It has the same optical properties and color characteristics of the same category of lamp.

3.5 Lamp marked voltage or voltage range.

3.6 Lights indicate power.

3.7 Temperature and lamp installed with standard test lampholder surface, measured according to standard test method should QB/T 2512 provisions get on.

3.8 In normal use may cause an electric shock conductive member.

3.9 Under the terms of a kind, a category of samples carried out to test its design qualification tests.

3.10 Lights indicate the operating frequency.

3.11 Compliance with one or more sets of the same composition of component testing needed for the type test sample provided.

4 Test requirements

4.1 Self-ballasted electrodeless fluorescent lamp design and construction should ensure its function in normal use is safe and reliable for the user and the surrounding environment is not Cause harm. Generally speaking, when you want to verify eligibility of all the provisions of the project are tested.

4.2 Unless otherwise specified, all of the test items should be at a temperature of $25\text{ }^{\circ}\text{C} \pm 2\text{ }^{\circ}\text{C}$ of draft-free laboratory, and with the rated voltage Rated frequency for testing. As indicated on the lamp voltage range, then take the average of the voltage range as the rated voltage.

4.3 each member self-ballasted electrodeless fluorescent lamps are factory package and can not be repaired, it should not be open to experiment. If you need to check Inspection and testing its lamp circuit, shall consult with the manufacturer or vendor to furnish designed for simulation of abnormal conditions of the test lamp.

5 Flag

5.1 lamp should be clear and firm following signs.

- a) source flag (can be taken trademark, manufactured in the form of factory or dealer's name);
- b) rated voltage and voltage range (with "V" or "V" means);
- c) rated power (with "W" or "W" means);
- d) rated frequency (in "Hz" indicates).

5.2 The manufacturer shall the lamp, or on the packaging, or in addition to the following logo on the Instructions.

- a) the lamp current;
- b) If the lamp burning position if there is a limit on the sign marked;
- c) If the replacement lamp is replaced by much more than the weight of light weight, you should note the increased weight may reduce some lamps machine Mechanical stability; Specific conditions and constraints
- d) must be followed when using the light, as used in the dimming circuit time. If the lamp is not available for Dimming Road should use the following tags.

5.3 in accordance with the following terms verify its eligibility.

- a) with or without

5.1 Appearance inspection method required by Mark and clarity;

- b) according to the following method hallmark durability. use a cloth dampened with water and gently wipe the mark 15s, wait until after dry, then a dip There hexane cloth 15s, after the test, the marking shall be clear;

6 Interchangeability

6.1 ensure interchangeability, lights should be used in line with GB/T 1406.1, GB 1407 predetermined cap.

6.2 Table 1 provides interchangeability of gauge to test the finished lamp cap size. Table 1 gauge were taken from GB/T 1483.1-2008 and GB/T 1483.5-2003. Table

1 Test Interchangeability gauges and lamp cap dimensions Lamp cap gauges test gauge size leaflet No. B22d A maximum and minimum A D

1 Max N Min The radial position of the pin Pins inserted into the lamp holder length Pins in the socket fixed position 7006-

10 And Yin 7006-11 7006-4A 7006-4B E

27 Thread maximum size Cap thread diameter minimum size Contact 7006-27B 7006-28A 7006-50

6.3 equipped B22d lamp or E27 lamp self-ballasted electrodeless fluorescent its quality should not exceed 1kg, and between the lamps and lamp should Moment Not more than 2Nm. By measuring the test eligibility.

7 to prevent electric shock

Self-ballasted electrodeless fluorescent lamp structure design should ensure that, without