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

**中华人民共和国国家标准**

GB/T 16259-2008

Replace GB/T 16259-1996

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**Test method for accelerated weathering  
building materials**

**建筑材料人工气候加速老化试验方法**

**Issued on May 04, 2008**

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**Issued by General Administration of Quality Supervision, Inspection  
and Quarantine of the People's Republic of China**

**Standardization Administration of the People's Republic of  
China**

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## Foreword

This Standard will replace GB/T 16259-1996 *Test method for color changes in accelerated weathering of colored building materials*.

Comparison with GB/T 16259-1996, main changes of this Standard are as follows:

- The light irradiance between wavelength 290nm and 800nm is  $550 \pm 50 \text{ W/m}^2$  in 4.1.3 of this Standard, previous standard is  $1000 \pm 200 \text{ W/m}^2$  between 300nm to 890nm;
- Two black standard temperature  $(65 \pm 3)^\circ\text{C}$  and  $(100 \pm 3)^\circ\text{C}$  are selected in 5.2 of this Standard, previous standard specified blackboard temperature is  $(63 \pm 3)^\circ\text{C}$ .

This Standard is proposed by China Building Materials Federation

This Standard is under the jurisdiction of National Whiteness Standard Sample Standardization Technical Workgroup.

The responsible drafting organizations are Technical Supervision and Research Center of the Building Materials Industry, Beijing Kangguang Instrument Co., Ltd, Guilin Guiguang Talc Development Co., Ltd, Shandong Pingdu Talc Mining Co., Ltd, Liaoning Aihai Talc Mining Co., Ltd, Beijing Xingguang Colourimetry Co., Ltd, Konica Minolta Co., Ltd, Dalian Institute of Architectural Design and & Research Co., Ltd, Beijing Optical Instrument Factory and Jinzhou Dalian Constructional Engineering Quality Supervision Station.

The chief drafting staff of this standard includes Wang Huan, Wang Feng, Lu Deyun, Yu Zhongzhang, Qi Ying, Ma Yi, Wu Xintao, Yin Taian, Wang Guofa and Yu Yong.

This standard replaces the following historical editions issued:

- GB/T 16259-1996.

# Test method for in accel erated weathering building materials

## 1 Scope

This standard specifies the test apparatus, test condition, test procedure, the representation of test result and test report for artificial weathering building materials with xenon lamp as the light source.

This standard applies for the determination of test method for in accel erated weathering building materials.

## 2 Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 11942 Colorimetric methods for colour building materials

GB/T 16422.1-1996 Plastics—Methods of exposure to laboratory light sources Part 1: General guidance

## 3 Principles

3.1 Radiation generated by xenon arc lamp equipped with proper light filters under proper maintenance is similar to the spectral energy distribution of ultraviolet and the visible range of ground sunlight.

3.2 Expose the sample into the light source under specified environmental conditions.

3.3 Test procedure includes the measurement of the sample surface irradiance and irradiation.

3.4 A similar material of known performance is recommended to be adopted as a

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