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**Test method for air ion concentration of  
materials**

**材料诱生空气离子量测试方法**

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## Foreword

This standard is drafted in accordance with regulations provided in GB / T 1.1-2009.

The standard is proposed by China Building Materials Federation.

The standard is under the jurisdiction of National Standardization Technical Committee of lightweight construction and decoration materials (SAC/TC 195).

Drafting units of this standard: China Building Materials Academy, Shenzhen Grandland Decoration Group Co., Ltd., Taiyuan Lunjia Biological Engineering Co., Ltd., Foshan Shunde Gaoyi New Plastic Co., Ltd., Shenzhen Eli Environmental Protection Technology Co., Ltd., FO SHAN SHI SHUN DE WEN BAO KE JI YOU XIAN GONG SI, Inner Mongolia Wuhua Tianbao Mineral Resources Co., Ltd., Sichuan shengda forestry industry Co., Ltd., Shanghai Zhenao biological technology Co., Ltd., Fujian Yuhe Haoyue Biological Engineering Materials Co., Ltd., Beijing days of Rock Health Technology Co., Ltd., Hua Xia Beineng (Beijing) Ecological Technology Co., Ltd. and Zhongke Weiyikang(Beijing) ecology technology Co.,td.

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From the date of implementation of this standard, JC / T 1016 2006 *Testing on negative ion concentration of materials* will be abolished.

# Test method for air ion concentration of materials

## 1 Scope

This standard specifies the terms and definitions, principles, test systems, test conditions, sample preparation, test procedure, the results of calculations and test reports of test method for air concentration of materials.

This standard applies to materials which can concentrate air ion, such as paint, panel, wallpaper, putty and so on.

## 2 Normative references

The articles contained in the following documents have become this document when they are quoted herein. For the dated documents so quoted, all the modifications (Including all corrections) or revisions made thereafter shall be applicable to this document.

JC/T 412.1-2006 Fiber cement flat sheets Part 1: Non-Asbestos Fiber cement flat sheets

## 3 Terms and definitions

The following terms and definitions apply to this document.

### 3.1 Air ion

Ions in air with negative or positive charge;

### 3.2 Air ion concentration of materials

The measured increment of air ion on materials per unit area and per unit time and the unit of it is [ions / (s·m<sup>2</sup>)].

## 4 Principles

Form an electric field by applying certain voltage to ion collector to capture air ion and leak the captured charge into a capacitor through leakage circuit, and then measure the air ion concentration of materials by continuously detecting the voltage change caused by air ion concentration of materials which is captured by capacitor.

## 5 Test systems

### 5.1 Collector

Collector consists of a group of high-voltage grilling of equally interval, collecting grilling and ground rod. The diagrammatic drawing of collector can be seen in Figure 1. The

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