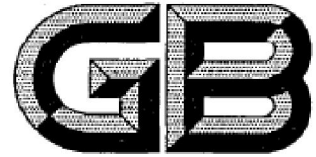


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**NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC
OF CHINA**

中华人民共和国国家标准

GB/T 7190.1-2008

Replace GB/T 7190.1-1997

**Glass fiber reinforced plastic cooling tower—
Part 1: Middle and small glass fiber reinforced
plastic cooling tower**

玻璃纤维增强塑料冷却塔

第 1 部分：中小型玻璃纤维增强塑料冷却塔

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China**

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Foreword

GB/T 7190 *Glass fiber reinforced plastic cooling tower* consists of two parts:

- Part 1: Middle and small glass fiber reinforced plastic cooling tower;
- Part 2: Large glass fiber reinforced plastic cooling tower.

This part will replace GB/T 7190.1-1997 *Glass fiber reinforced plastic cooling tower-Part 1: Middle and small glass fiber reinforced plastic cooling tower*.

Comparison with GB/T 7190.1-1997, main changes of this part are as follows:

- Extended the scope of application (see Clause 1);
- Adjusted partial terms and definitions (Clause 3 in 1997 Edition, Clause 3 in this Edition);
- Changed the cooling efficiency not less than 90% as not less than 95.0% (Subclause 5.1.2.2 in 1997 Edition, 5.1.2.2 in this Edition);
- Added the drifting ratio index (see Subclause 5.4);
- Added the test methods of drifting ratio (see annex E).

Annex A, C, D, E of this part are normative annex, annex B is informative annex.

This part is proposed by China Building Materials Federation.

This part is under the jurisdiction of National Technical Committee on Fiber Reinforced Plastic of Standardization Administration of China.

The responsible drafting organizations are Fiber Reinforced Plastics Research & Design Institute, Xi'an University of Architecture and Technology and Shanghai Jiaotong University.

The participation drafting organizations are Zhejiang Lianfeng Co., Ltd, Jiangsu Seagull Cooling Tower Co., Ltd, Dalian Sipinde Cooling Tower Co., Ltd, Guangzhou Lanxun Technology Development Co., Ltd, Nanjing Dayang Cooling Tower Co., Ltd, Shandong Kinflare Group Co., Ltd, Shandong Shuangyi Group Co.,Ltd, Shandong Liangchi Group Co., Ltd, Zhejiang Jinling Refrigeration Engineering Co., Ltd, Zhejiang Shangfeng Cooling Tower Co., Ltd, Guangzhou Sinro (Fogang) Air-conditioning & Cooling Equipment Co., Ltd and Beijing East Ruigang Technology Development Co., Ltd.

The chief drafting staff of this standard includes Yin Zheng, Wang Dazhe, Zhang Li Chen,

Lyu Qin and Ren Shiyao.

This part was issued on 1987 for the first time and revised firstly on 1997, this is secondary revised.

Glass fiber reinforced plastic cooling tower—Part 1: Middle and small glass fiber reinforced plastic cooling tower

1 Scope

This section of GB/T 7190 specifies the product classification, technical requirements, test methods, inspection rules, signs, packaging, transportation, storage and others of the middle and small cooling tower.

This part applies to the open cooling tower in mixed structure and with the single tower cooling water capacity of less than 1,000m³/h mechanical draft and filled with the fill.

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 1449 Fibre-reinforced plastic composites-Determination of flexural properties

GB/T 2576 Test method for insoluble matter content of resin used in fiber reinforced plastics

GB/T 2577 Test method for resin content of glass fiber reinforced plastics

GB/T 3854 Test method for hardness of reinforced plastics by means of Barcol impresser

GB/T 8237 Liquid unsaturated polyester resin for fiber reinforced plastics

GB/T 8924 Test method for flammability characteristics of fiber reinforced plastics—Oxygen index method

GB/T 17470 Glass fiber mats—Chopped strand and continuous filament mats

GB/T 18370 Glass fibre woven roving

3 Terms and definitions

For the purpose of this standard, the following terms and definitions shall apply.

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