

ICS 91.100.30

CCS Q04



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

GB/T 11837-2009

Replacing GB 11837-1989

**Test methods of the concrete compressive strength of concrete
pipes for water**

混凝土管用混凝土抗压强度试验方法

Issued on: March 9, 2009

Implemented on: November 5, 2009

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

Table of Contents

- 1 Scope
- 2 Normative references
- 3 Specimens
- 3.3 Size Tolerances
- 4 Main test equipment
- 4.1 Tryout

Foreword

This standard replaces GB/T 11837-1989 "Standard Test Method for Compressive Strength of Concrete concrete works." This standard and GB/T 11837-1989 main differences are as follows:

- Adjust some normative references (Chapter 2);
- Improve the main test equipment (Chapter 4);
- Perfected specimen production requirements (Chapter 6);
- A perfect specimen of the conservation requirements (Chapter 7);

--- Canceled Appendix A core sample test method for compressive test specimen. The standard proposed by China Building Materials Federation. This standard by the National Standardization Technical Committee cement products (SAC/TC197) centralized. This standard by the Suzhou Institute of concrete cement products is responsible for drafting. Participated in the drafting of this standard. Wuhan double-strength cement products limited liability company, cement pipe plant in Shanghai, Shanghai Pudong concrete products have Limited, South Ning Hongji Cement Products Co., Ltd., Shanghai Min Ma Cement Pipe Co., Ltd., Kunshan City, Palestinian Cement Co., Ltd., Zhejiang Jiangju Long Pipe Group Co., Ltd., Fujian Shishi never before Building Material Co., Tangshan City Yonghong Cement Co., Ltd., Tianjin Wanlian pipeline Engineering Co., Ltd. Jiashan Thai member, Liaoningbeipiao electricity poles Manufacturing Co., Ltd., Tianjin Cement Co., Ltd. Po Chak, Zouping County Tianyuan cement works. Drafters of this standard. Shen Lihua, Zhang Yinqiu, Tian Peiyun, Lvgen Xi, Dong Ho, Ji Aimin, Bong child, Yu Hong party. This standard was first released in 1989; this is the first revision. Concrete compressive strength test method for concrete works

1 Scope

GB/T 11837-2009 is the Chinese national standard on test methods of the concrete compressive strength of concrete pipes for water, in the field of construction materials and building. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 9 March 2009 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 5 November 2009. Classification: ICS 91.100.30, CCS Q04. 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 test piece of concrete compressive strength of concrete test method works involved, mainly test equipment, take concrete mixture Sample, specimen production, specimen conservation, test procedures, test results of calculations, test reports. Test methods specified in this standard apply to prestressed concrete pipes, prestressed concrete cylinder pipes, concrete and reinforced concrete pipes Determination of compressive strength of concrete pipe making.

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 2611 General requirements for testing machines

GB/T 3159 hydraulic universal testing machine

GB 5696 prestressed concrete pipe

GB/T 11836 concrete and reinforced concrete pipes

GB/T 19685 prestressed concrete cylinder pipe

GB/T 50081-2002 ordinary concrete mechanical performance test method standards GB J107 Concrete Strength Inspection and Evaluation Standards JG3019 concrete tryout JG/T 3020 concrete lab vibrating table

3 Specimens

3.1 shape of the specimen Cube shaped specimen.

3.2 specimen size

3.2.1 The specimen size was 150mm x 150mm x 150mm, 100mm x 100mm x 100mm two kinds. Wherein 150mm x 150mm x 150mm specimens to standard test pieces, 100mm x 100mm x 100mm test piece non-standard test piece.

3.2.2 Specimen size should be based on the aggregate maximum particle size selected in Table 1. Table 1 concrete specimen size Maximum aggregate size/mm specimen cross-sectional size/mm

Maximum aggregate size/mm	specimen cross-sectional size/mm
31.5	100 x 100
40	150 x 150

3.3 Size Tolerances

3.3.2 Specimen angle between adjacent surfaces should be 90 °, a tolerance of 0.5 °.

3.3.3 Specimen each side of the dimensional tolerance of 1mm.

4.1 Tryout

4.1.1 The test mode shall comply with the technical requirements JG3019.