

NATIONAL STANDARD OF
THE PEOPLE'S REPUBLIC OF CHINA

中华人民共和国国家标准

Standard for Test Method of Performance on
Ordinary Fresh Concrete

普通混凝土拌合物性能试验方法标准

GB/T 50080-2002

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NOTICE

This code is written in Chinese and English. The Chinese text shall be taken as the ruling one in the event of any inconsistency between the Chinese text and the English text.

Notice of Promulgation for Ministry of Construction of the People's Republic of China

No. 103

Notice on Promulgation of the national standard "Standard for Test Method of Performance on Ordinary Fresh Concrete"

Hence "Standard for Test Method of Performance on Ordinary Fresh Concrete" has been approved as the national standard with a serial number of GB/T 50080-2002, which shall come into force upon June 1st, 2003. At the same time, the former "Test Method of Performance on Ordinary Fresh Concrete" GBJ 80-85 is superseded.

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January 10th, 2003

Preface

According to the requirement of "Notice on Promulgation of "Plan for Preparation and Modification of National Standards for Project Construction 1998" Document JB [1998] No.94 the Ministry of Construction of PRC, the former national standard "Test Method of Performance on Ordinary Fresh Concrete" GBJ 80-85 is revised by standard group on the basis of extensive survey, summarizing practical experience, referring to abroad advanced standards, and widely taking counsel.

Main technical contents of this standard include: 1 General; 2 Mixture sampling and sample preparation; 3 Consistency test; 4 Setting time test; 5 Bleeding test and pressurized bleeding test; 6 Apparent density test for mixture; 7 Air content test for mixture; 8 Mix proportion analytical test; Appendix A Compacting factor method.

The main contents revised consist of: 1. deleting test method for air content of concrete by hydrostatic test in the former standard; 2. technically revising other test methods in the former standard to make them more suitable and flawless; 3. due to the development of concrete technologies, test for expanding degree of slump, setting time test, bleeding test and pressurized bleeding test, and compacting factor test are added; 4. "water cement ratio analysis for cement mixture" in the former standard is expanded from only analyzing water cement ratio to practical test method that can analyzing four main constitutes of mix proportion; 5. standardization requirements for test apparatuses and equipments are brought forward; 6. contents which shall include in test report are added.

This standard may require partial revision in the future, and information and clause contents related to partial revision will be published in journal "Engineering Construction Standardization".

The Ministry of Construction will be responsible for the management of this standard. The China Academy of Building Research will be responsible for the explanation on detailed technical contents.

The users of this Standard are kindly required to summarize experience combined with project practice during the execution of this standard, and send any suggestions or comments in this regard to Manage Group for "Standard for Test Method of Performance on Ordinary Fresh Concrete" of Standard Research Center of China Academy of Building Research (30 East Road of North Ring No.3, Beijing; Post Code: 100013; E-mail: jgbzcabr@vip.sina.com) at any time for enhancing standard quality.

Chief editorial units, participating editorial units and major drafters of this Standard:

Chief editorial units:

China Academy of Building Research

Participating editorial units:

Qinghua University

College of Material Science and Technology of Tongji University

Hunan University

Product Quality Supervision and Inspection Center of Ministry of Railways

Guizhou Zhongjian Architectural Design and Research Institute

China Building Material Academy

Hangzhou Institute of Applied Technology

Shanghai Research Institute of Building Science

Jinan Shijin Group Co., Ltd.

Major Drafter:

Rong Junming, Li Kechang, Huang Xiaoping, Yao Yan, Yang Jing, Li Oiling,
Huang Zhengyu, Zhong Meiqin, Lin Lixun, Li Jiakang, Gu Zhengmin, Tao Liying

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1 General

1.0.1 This Standard has been established for further standardizing concrete test method, enhancing precision and level for concrete test, and providing a uniform test method of performance on ordinary fresh concrete at the same time of inspecting and controlling the quality of concrete project or precast concrete components.

1.0.2 This standard applies to test method of performance on ordinary fresh concrete in construction engineering, including sampling and sample preparation, consistency test, setting time test, bleeding test and pressurized bleeding test, apparent density test, air content test, and mix proportion analytical test.

1.0.3 Report of the test according to test method in this standard shall include the following contents:

1 Contents provided by entrusting unit:

- 1) Name of entrusting unit;
- 2) Project name and construction position;
- 3) Name of the item required test;
- 4) Variety, specs and origin of raw materials, as well as mix proportion of concrete;
- 5) Other contents that shall be stated.

2 Contents provided by test unit:

- 1) Serial number of sample;
- 2) Test date and time;
- 3) Name, type and serial number of apparatus;
- 4) Ambient temperature and humidity;
- 5) Variety, specs and origin of raw materials, mix proportion of concrete, and serial number of corresponding test;
- 6) Agitation mode;
- 7) Strength grade of concrete;
- 8) Test results;
- 9) Other contents that shall be stated.

1.0.4 Besides complying with this Standard, test method of performance on ordinary fresh concrete shall also comply with relevant regulations of current national compulsory standards.



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