

ICS 77.040.10

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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 2975-1998

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**Steel and steel products-Location and preparation of test  
pieces for mechanical testing**

**钢及钢产品力学性能试验取样位置及试样制备**

**Issued on Oct. 16 1998**

**Implemented on Aug 01, 1999**

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**Issued by General Administration of Quality Supervision, Inspection and Quarantine  
National Standardization Administration Committee of China**

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## Foreword

The standard identically adopts international standard *ISO 377:1997 Steel and steel products-Location and preparation of test pieces for mechanical testing*

The main technical contents in the Standard equated with ISO 377, e.g. application scope, sample preparation and sampling positions etc. According to China specific conditions, the regulations of that machining allowance on sampling are comparatively detailed, and the sampling on longitudinal rolling steel plate is clearly stipulated. In this standard, terms, symbols, sampling state, the thickness & position of products, sampling position and regulations of steel square tube sampling have been added based on *GB 2975-82 Rules for sampling in mechanical and technological testing of steel products*, and, in order to be consistent with the provisions of international standards, modifications have been made on the sampling of round steel, hexagon steel and steel tubes.

The standard in place of *GB 2975-82 Rules for sampling in mechanical and technological testing of steel products* since issue date.

The appendix A of the Standard is Standard Appendix

The appendix B of the Standard is Normative Appendix

The Standard is proposed by former State Ministry of Metallurgical Industry

The Standard is under the jurisdiction of National Steel Standardization Technical Committee

The Standard main drafting unit: Central Iron & Steel Research Institute of Ministry of Metallurgical Industry and Information Standard Research Institute of Ministry of Metallurgical Industry

The Standard is mainly drafted by Li Jiulin, Liang Xinbang, Gao Zhenying and Jiang Qingmei.

The Standard was first issued on March, 1982.

## ISO Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standard is normally carried out through ISO technical committees. Each member body Interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75% of the member bodies casting a vote.

International Standard ISO 377 was prepared by Technical Committee ISO/TC 17, Steel, Sub-Committee SC 20, Steels for general technical condition, sampling and mechanical test methods

After revised by technical, secondary version of the Standard in place of first version (ISO 377:1989).

Appendix A is a part of the Standard.

# Steel and steel products-Location and preparation of test pieces for mechanical testing

## 1 Scope

This Standard specifies requirements for mechanical property test, sampling position and sample preparation of section steel, bar steel, steel plates and steel tube which define in GB/T 15574. Consultation between supplier and purchaser parties, the Standard also can be used for other metal products sampling.

If product standard or supplier and purchaser have other regulations for sampling, shall meet the requirement.

## 2 Normative Reference

The following Standard contains provisions which, through reference in this text, constitute provisions of this standard. At the time of publication, the edition indicated was valid. All standards are subject to revision, and parties to agreements based on this part of the standard are encouraged to investigate the possibility of applying the most recent edition of the standard indicated below.

GB/T 15574-1995 Steel products classification and definitions

## 3 Definitions and Symbols

The Standard adopts for following definitions and symbols:

### 3.1 Definitions

#### 3.1.1 Test unit

According to the requirements for product standard or contract, based on the test of sampling products, and the number and tonnage of one time receiving or refusing products, called test unit (see Figure 1)

#### 3.1.2 Sample product

The extraction part on test unit when inspecting and testing (e.g. a plate), called sample product (see Figure 1)

#### 3.1.3 Sample

Selected enough material from sample product in order to prepare one or several sampling, called sample (see Figure 1)

Note: In some cases, sample equated with sample product.

#### 3.1.4 Rough specimen

The material carried out mechanical treatment or heat treatment in order to prepare sampling, called rough specimen (see Figure 1)

#### 3.1.5 Test piece

The rough specimen carried out mechanical treatment or not which have qualified size and meets the requirement for test state, called test piece (see Figure 1).

#### 3.1.6 Reference condition

The sample, rough specimen or test pieces carried out heat treatment are represented final state

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