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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 241–2007

Replace GB/T 241–1990

Metal materials—Tube—Hydrostatic pressure test

金属管 液压试验方法

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Foreword

This Standard will replace GB/T 241-1990 *Method tubes-Hydrostatic pressure testing*.

There are major changes and supplements to previous Standard are as follows:

- Add of foreword;
- Revision of test principle;
- Revision and supplement of terms and definitions;
- Supplement of test apparatus and device;
- Test methods are divided into test sample and test condition, carry on revision and supplement for previous contents;
- Add of annex A and annex B.

Annex A and B of this Standard are informative annex.

This Standard is proposed by China Iron and Steel Association.

This Standard is under the jurisdiction of National Technical Committee on Iron and Steel of Standardization Administration of China

Draft unit of this Standard: Tianjin Pipe (Group) Corporation.

Chief drafters of this Standard: Su Yingqun and Sun Yu.

This standard replaces the following historical editions issued:

- GB 241-1982, GB/T 241-1990.

Metal materials—Tube—Hydrostatic pressure test

1 Scope

This standard specifies test principle, terms and definitions, test apparatus and instruments, specimen, test requirements, test results assessment, and test report for hydrostatic pressure test method of metallic tubes.

This standard applies to the hydrostatic pressure tests for steel, cast iron, and nonferrous metals under room temperature and is used to inspect the quality of metallic tubes.

2 Test principle

A metallic tube is held for a specified time under conditions with specified test pressure, load rate, and pressure transfer media and it is inspected for the strength of and leakage from the base metal and welds.

3 Terms and definitions

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

3.1

maximum testing pressure

the pressure specified in relevant product standards, agreements, or Annex A indicated on the pressure gauge within pressure hold time during test

3.2

testing hold time

duration under the maximum testing pressure

3.3

pressure transfer medium

means liquid, usually including water, oil, and emulsion

3.4



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