

ICS 19.100; 25.160.40
CCS J 04



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

GB/T 19799.1-2015

**Non-destructive testing -- Ultrasonic testing -- Specification for
calibration block No.1
(English Translation)**

Issued on: October 9, 2015

Implemented on: June 1, 2016

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine**

Table of Contents

Foreword...	3
1 Scope...	5
2 Normative references...	5
3 Terms and definitions...	5
4 Manufacture...	5
5 Velocities...	8
6 Marking...	9
7 Declaration of conformity...	9
8 Possible modifications to block No. 1...	9
9 Existing blocks...	11
Annex A (Normative) Determination of velocities...	12

Foreword

This Part was drafted in accordance with the rules given in GB/T 1.1-2009.

This Part replaces GB/T 19799.1-2005 Non-destructive testing - Ultrasonic testing - Calibration block No.1.

Compared with GB/T 19799.1-2005, this Part makes the following main modifications.

- modified the scope (see Clause 1 of this edition; Clause 1 of Edition 2005);
- added normative references (see Clause 2 of this edition);
- added terms and definitions (see Clause 3 of this edition);
- modified material (see 4.1 of this edition; 2.1 of Edition 2005);
- modified dimensions (see 4.2 of this edition; 2.2 of Edition 2005);
- added machining, heat treatment and surface finish (see 4.3 of this edition);
- added reference marks (see 4.4 of this edition);
- added requirements for velocities (see Clause 5 of this edition);
- added marking (see Clause 6 of this edition);

- added declaration of conformity (see Clause 7 of this edition);
- added possible modifications to block No. 1 (see Clause 8 of this edition);
- added existing blocks (see Clause 9 of this edition);
- added normative annex "Determination of velocities" (see Annex A).

This Part uses translation method and identically uses ISO 2400.2012 Non-destructive testing - Ultrasonic testing - Specification for calibration block No. 1 (English version).

The Chinese document which has consistency with the international normative reference in this Part is as follows.

- GB/T 12604.1-2005 Non-destructive testing - Terminology - Terms used in ultrasonic testing (ISO 5577.2000, IDT)

This Part was proposed by and shall be under jurisdiction of National Technical Committee on Non-destructive Testing of Standardization Administration of China (SAC/TC 56).

The drafting organizations of this Part. Shanghai Materials Research Institute, Shandong Ruixiang Mold Co., Ltd. (Shandong Jining Mold Factory), Wujiang Hongda Flaw Detection Equipment Co., Ltd., Luoyang LYC Bearing Co., Ltd., Shanghai COSCO Kawasaki Heavy Industries Steel Structure Co., Ltd., Shanghai Jianke Inspection Co., Ltd., Shanghai Heavy Machinery Factory Co., Ltd., Dehua Material Testing Co., Ltd.

Main drafters of this Part. Xi Lifeng, Ding Jie, Jiang Wei, Jin Yufei, Wei Zhongrui, Chen Cuili, Shen Mingkui, Tian Ruibin, Fan Weidong, Yin Fei, Cai Xiao, Xu Hong, Xia Weilin, Hua Ruxi.

Version of standard substituted by this Standard is.

- GB/T 19799.1-2005.

Non-destructive testing - Ultrasonic testing -
Specification for calibration block No. 1

1 Scope

This Part of GB/T 19799 specifies requirements for the dimensions, material and manufacture of a steel block for calibrating ultrasonic test equipment used in manual testing.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 5577, Non-destructive testing - Ultrasonic inspection - Vocabulary

EN 1330-4, Non-destructive testing - Terminology - Part 4. Terms used in ultrasonic testing

EN 10025-2, Hot rolled products of structural steels - Part 2. Technical delivery conditions for non-alloy structural steels

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 5577 and EN 1330-4 apply.

4.1 Steel

Blocks shall be manufactured from steel grade S355J0, specified in EN 10025-2, or from steel of an equivalent grade.

4.2 Dimensions

The dimensions of calibration block No. 1 shall be as shown in Figure 1.

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