



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

GB/T 39432-2020

**Non-destructive testing - Ultrasonic testing - Specification for
step wedge calibration block**

Issued on: November 19, 2020

Implemented on: June 1, 2021

Issued by: SAMR; SAC

Table of Contents

Foreword...	3
1 Scope...	4
2 Normative References...	4
3 Terms and Definitions...	4
4 Size...	5
5 Other Sizes...	5
6 Material...	6
7 Manufacturing...	6
8 Marking...	7
9 Declaration of Conformity...	7
Bibliography...	8

Foreword

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

This Standard uses the translation method and equivalently adopts ISO 16946:2017
Non-destructive Testing - Ultrasonic Testing - Specification for Step Wedge Calibration
Block.

The Chinese document that has a consistent correspondence with the international
document in Normative References of this Standard is as follows:

---GB/T 12604.1-2005 Non-destructive Testing - Terminology - Terms Used in
Ultrasonic Testing (ISO 5577:2000, IDT)

This Standard makes the following editorial modifications:

---In order to adapt to the application of domestic technology, the title of the
Standard is modified into Non-destructive Testing - Ultrasonic Testing -
Specification for Step Wedge Calibration Block;

---In order to adapt to the application of domestic technology, a NOTE is added to
Chapter 1;

---In order to adapt to the application of domestic technology, a NOTE is added to

Chapter 6.

This Standard was proposed by and shall be under the jurisdiction of National Technical Committee 56 on Nondestructive Examination (NDE) of Standardization Administration of China (SAC/TC 56).

The drafting organizations of this Standard: Zhejiang URT Testing Technology Co., Ltd.; Shanghai Research Institute of Materials; Bohai Shipbuilding Heavy Industry Co., Ltd.; Ningbo Special Equipment Inspection and Research Institute; Guizhou Gas Group Corporation Ltd.; Dongfang Boiler Group Co., Ltd.; Nuclear Industry Engineering Research and Design Co., Ltd.; China Energy Engineering Group Guangdong Power Engineering Co., Ltd.; China Nuclear Power Engineering Co., Ltd.; Beijing Sheenline Group Co., Ltd.; Dalian Shipbuilding Industry Co., Ltd.

1 Scope

This Standard specifies the sizes, materials and manufacturing requirements of steel step wedge calibration block used for the adjustment of ultrasonic equipment.

NOTE: in the practical detection process, the step wedge calibration block is used to adjust the time baseline and detection sensitivity of ultrasonic equipment simply and quickly.

2 Normative References

The following documents are indispensable to the application of this document. In terms of references with a specified date, only versions with a specified date are applicable to this document. In terms of references without a specified date, the latest version (including all the modifications) is applicable to this document.

ISO 5577 Non-destructive Testing - Ultrasonic Testing - 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

The terms and definitions defined in ISO 5577 and EN 1330-4 are applicable to this document.

The website of the ISO and IEC standardized terminology database is as follows:

---IEC online electrotechnical vocabulary: <http://www.electropedia.org/>

---ISO online browsing platform: <http://www.iso.org/obp>

.....