Chinastandards.org

ICS 77.040.10
CCS H22

YS

NONFERROUS METALS INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YS/T 1307.1-2019

Nickel-titanium shape memory alloys - Test methods - Part 1: Tensile test method

镍钛形状记忆合金记忆性能测试方法 第1部分：拉伸测试方法

(English Translation)

Issued by: Ministry of Industry and Information Technology

Preview: page 1 of 3 shown, 8 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/ys-t-1307-1-2019

Chinastandards.org

Table of Contents

[Preview only]
1 Scope
2 Normative references
2.1 Orientation-cut
2.2 Orientation flat
2.3 Second flat
2.4 Domain
2.5 Axis deviation
2.6 Supercooling circle
2.7 Cuie temperature
3 Reagents
3.1 Product classification
3.2 Chemical component
3.3 Physical properties
4.1 Alloy designation, temper and dimensions
5 Inspection rules
5.1 Main components
6 Test methods
7 Precision
8 Process control
9 Test report

1 Foreword

YS/T 1307.1-2019 was issued by Ministry of Industry and Information Technology on 2 August 2019.

It is one of 2 parts of the YS/T 1307 series.

The YS/T prefix marks a recommended standard. It is not law in itself: it becomes binding when a contract names it, when a regulation or a mandatory standard refers to it, or when a producer declares conformity with it.

Preview: page 2 of 3 shown, 8 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/ys-t-1307-1-2019

2 Scope Preview

This standard specifies the terms and definitions, symbols and descriptions, principles, equipment, samples, test procedures, test data processing, precision and test reports of the tensile test method for memory properties of nickel-titanium shape memory alloys. This standard applies to the test of memory performance of nickel-titanium shape memory alloys.

YS/T 1307.1-2019 falls under ICS 77.040.10, in the field of metallurgy.

This catalogue holds 1,671 other YS/T standards in that field.

In this catalogue, YS/T standards carry edition years from 1985 to 2026.

3 About this standard

Sector: Nonferrous Metallurgy Industry Standard (Recommended)

Issued by: Ministry of Industry and Information Technology

English translation: about 8 pages (approximate)

Chinese original: about 8,871 characters

4 Related standards

Other parts of this standard:

YS/T 1307.2-2019 - Part 2: Bending test method

Standards on related subjects:

GB/T 2039-2024 - Metallic materials - Uniaxial creep testing method in tension

GB/T 230.1-2018 - Metallic materials - Rockwell hardness test - Part 1: Test method

GB/T 231.1-2018 - Metallic materials - Brinell hardness test - Part 1: Test method

YS/T 1734-2025 - Test method for bonding strength of titanium metal composite plate

YS/T 1598-2023 - Method for Determination of Laser Marking Depth and Heat Affected Zone of Cladding Tube

5 Classification and status

International classification (ICS): 77.040.10

Chinese Standard Classification (CCS): H 22

Prefix YS/T: recommended standard.

Preview: page 3 of 3 shown, 8 in the full document. Complete English PDF, instant download:
https://chinastandards.org/standards/ys-t-1307-1-2019