



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

GB/T 30027-2021

**Round steel short link chains for lifting purposes - Fine
tolerance hoist chains for hand operated chain hoists - Grade
VH**

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules of Standardization Documents"

Drafting.

This document replaces GB/T 30027-2013 "High-precision chain for short-link chain VH grade manual chain hoist for lifting", and

Compared with GB/T 30027-2013, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

---Changed the size (see Chapter 5, Chapter 5 of the.2013 edition);

---Changed the material and manufacturing (see Chapter 6, Chapter 6 of the.2013 edition);

--- Changed the security requirements verification (see Chapter 7, Chapter 7 of the.2013 edition);

---Changed the assembly and use of the chain on the hoist (see Chapter 10, Chapter 10 of the.2013 edition);

--- Changed Appendix A (see Appendix A, Appendix A of the.2013 edition).

This document is equivalent to ISO 16872:2015 "High-precision chain VH for manual chain hoist with steel short link chain for lifting".

The Chinese documents that have consistent correspondence with the normatively cited international documents in this document are as follows.

---GB/T 229-2020 Charpy pendulum impact test method for metallic materials (ISO 148-1.2016, MOD)

---GB/T 4340.1-2009 Vickers hardness test of metallic materials Part 1. Test method (ISO 6507-1.2005, MOD)

---GB/T 16825.1-2008 Inspection of static uniaxial testing machine Part 1. Tensile and (or) pressure testing machine force measuring system
Inspection and calibration (ISO 7500-1.2004, IDT)

---GB/T 19748-2019 Charpy V-notch pendulum impact test instrumental test method for metallic materials (ISO 14556. 2015, MOD)

---GB/T 19764-2005 Priority Number and Priority Numbering Integer Value Series Selection Guide (ISO 497.1973, IDT)

---GB/T 20946-2007 General Rules for Acceptance of Short Link Chains for Lifting (ISO 1834.1999, IDT)

1 Scope

This document specifies the technical requirements of VH high-precision hoist chains for manual chain hoists (hereinafter referred to as hoist chains). The chain is

The round steel short link chain that has been welded, heat treated and tested, and meets the general acceptance rules specified in ISO 1834.

Note 1. The letter "V" indicates the grade, which conforms to ISO 1834.

Note 2. The letter "H" indicates that this type of hoist chain is only suitable for manual hoists.

Note 3. The definitions of resistance welding and flash butt welding are listed in ISO 4063.

This document applies to high-precision hoist chains with a nominal size of 3mm~13mm and an operating environment temperature of -10 degrees C~150 degrees C.

2 Normative references

The contents of the following documents constitute the indispensable clauses of this document through normative references in the text. Among them, dated quotations

Only the version corresponding to that date is applicable to this document; for undated

reference documents, the latest version (including all amendments) is applicable to
This document.

ISO 148-1 Charpy Pendulum Impact Test of Metallic Materials Part 1. Test Method
(Metallic materials-Charpy

pendulum impact test-Part 1. Test method)

ISO 497 Guidelines for Selecting Priority Number Series and Priority Number Series
Containing More Round Integer Values (Guide to the choice of series

of preferred numbers and of series containing more rounded values of preferred numbers)

ISO 643 Steel-Micrographic determination of the apparent grain size of steel
apparent grain size)

ISO 1834 Short link chain for lifting purpose-General conditions of
acceptance)

ISO 6507-1 Vickers hardness test of metallic materials Part 1. Test method
(Metallic materials-Vickers

hardness test-Part 1. Test method)

ISO 7500-1 Verification of static uniaxial testing machine Part 1. Inspection and calibration
of force measuring system of tension and compression testing machine (Me-

tallic materials-Verification of static uniaxial testing machines-Part 1. Tension/compression testing
machines-Verification and calibration of the force-measuring system)

ISO 14556 Steel Charpy V-notch pendulum impact test instrument test method
(Steel-Charpy V-notch pendulum

impact test-Instrumented test method)

3 Terms and definitions

The following terms and definitions defined by ISO 1834 apply to this document.

3.1

Standard gauge length

Based on the multi-pitch length of 11 links.