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

GB/T 38232-2025

Replacing GB/T 38232-2019

Steel wire rope net panels for engineering

工程用钢丝绳网

(English Translation)

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Foreword

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

This document supersedes GB/T 38232-2019 "Steel Wire Rope Mesh for Engineering Use". Compared with GB/T 38232-2019, except for structural adjustments and weaving... Aside from the logical changes, the main technical changes are as follows.

---The reference to GB/T 2828.1 terms and definitions has been removed (see Chapter 3 of the 2019 edition);

---The technical requirements for wire rope coating have been revised (see 5.1.2, 2019 version of 5.1.2);

---The requirement for the diameter of the wire at the winding node has been removed (see 5.2.1 in the 2019 version);

---Added technical requirements for the thickness and corrosion protection of fastener nodes (see 5.2.1);

---Added technical requirements for the positive and negative tolerances of the mesh side length (see 5.3.1);

---Added requirements to the durability quality certification documents to specify the specifications, coating type, and grade of the wire rope (see 5.3.2);

---The visual inspection requirements for wire rope netting have been revised (see 6.3.1, 2019 version 6.3.1);

---The inspection rules have been changed (see Chapter 7, Chapter 7 of the 2019 edition).

This document is modified to adopt ISO 17746:2016 "Definition and technical specifications of wire rope mesh panels and rolls".

This document has undergone significant structural adjustments compared to ISO 17746:2016. A comparison of the structural numbering changes between the two

documents is provided below. See Appendix A for the table.

This document differs significantly from ISO 17746:2016. The relevant clauses are indicated in vertical margins.

Single lines (|) are indicated. A summary of these technical differences and their causes can be found in Appendix B. The following editorial changes have been made to this document.

---The standard name has been changed to "Steel Wire Rope Net for Engineering".

1 Scope

This document specifies the structural forms, specifications, technical requirements, test methods, inspection rules, and delivery contents of steel wire rope netting for engineering applications. Packaging, labeling and storage.

This document applies to medium-risk rockfalls, mudslides, and avalanches in highways, railways, mines, municipal works, water conservancy and hydropower projects, and industrial and civil construction.

Steel wire rope netting for disaster prevention projects (hereinafter referred to as steel wire rope netting).

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 228.1-2021 Metallic materials - Tension testing - Part 1: Test at room temperature (ISO 6892-1:2019, MOD)

GB/T 1839 Test methods for the quality of galvanized coatings on steel products (GB/T 1839-2008, ISO 1460:1992, MOD)

GB/T 10125 Corrosion test in artificial atmosphere - Salt spray test (GB/T 10125-2021, ISO 9227:2017, MOD)

GB/T 16422.2 Plastics - Laboratory Light Source Exposure Test Methods - Part 2: Xenon Arc Lamps (GB/T 16422.2-2022)

ISO 4892-2:2013, IDT

GB/T 16422.3 Plastics - Laboratory Light Source Exposure Test Methods - Part 3:

Fluorescent Ultraviolet Lamps (GB/T 16422.3-2022, ISO 4892-3:2016, IDT)

GB/T 16825.1-2022 Inspection and Calibration of Static Uniaxial Testing Machines for Metallic Materials - Part 1: Tensile and/or Compressive Testing Inspection and calibration of the force measurement system for testing equipment (ISO 7500-1:2018, IDT)

GB/T 20118-2025 General technical requirements for steel wire ropes (ISO 2408:2017, MOD)

GB/T 45970 Zinc or zinc-aluminum alloy coatings on steel wire and its products (GB/T 45970-2025, ISO 7989-2:2021, MOD)

YB/T 4221 Steel Wire for Machine-Woven Steel Wire Mesh in Engineering

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Wire rope mesh

wireropenetpanel A planar mesh structure formed by continuous cross-weaving of steel wire ropes.

3.2 Waving wire rope

The steel wire rope used to weave the mesh surface in a steel wire rope net.

3.3 Perimeter wire rope

A steel wire rope that surrounds the outer boundary of a steel wire rope net and is connected end to end.