

ICS 77.140.65

CCS H 49



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

GB 33955-2024

Replacing GB/T 33955-2017

Steel wire ropes for mine hoisting

矿井提升用钢丝绳

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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 for standardization documents" Drafting is required. This document replaces GB/T 33955-2017 "Wire rope for mine hoisting". Compared with GB/T 33955-2017, in addition to structural adjustments and In addition to editorial changes, the main technical changes are as follows:

- a) Added a chapter on "Terms and Definitions" (see Chapter 3);
- b) Deleted 17x7 in round strand wire rope structure, 4xV39FC, 4xV48FC, 6xV30, 6xQ19.6xV21FC, 6xQ33.6xV21FC and 6xK19W, 6xK25F, 6x K29F, 18xK19W, 15xK7, 16xK7 (see Table 1 of the.2017 edition);
- c) Added round strand wire rope structures 6x46WS, 7x19S, 7x26WS, 7x31WS, 7x36WS, 7x41WS, 8x 26WS, 8x31WS, 8x36WS, 8x41WS, 24(W)x17S, 24(W)x19S, 35(W)x17S, 35(W)x 19S, special-shaped strand wire rope structure 6xV28SB and compacted strand wire rope structure 6xK46WS, 7xK19S, 7xK26WS, 7xK31WS, 7xK36WS, 7xK41WS, 8xK26WS, 8xK31WS, 8xK36WS, 8xK41WS, 24(W)xK7, 24(W)xK17S, 24(W)xK19S, 35(W)xK17S, 35(W)xK19S (see Table 1);
- d) The diameter ranges of 29 structural steel wire ropes such as 6x7 and 6x19S have been changed (see Table 1, Table 1 of the.2017 edition);
- e) The marking of 6xV25 type special-shaped strand wire rope has been changed (see Table 1, Table 1 of the.2017 edition);
- f) The lubrication requirements and elongation requirements in the order content have been deleted (see Chapter 4 of the.2017 edition);
- g) Added the requirements for the nominal tensile strength of steel wire used for different grades of steel wire ropes (see Table 3);
- h) Added composite rope core types (see 6.2.1);
- i) Changed the requirements for ordinary grease and friction-increasing grease for wire

ropes (see 6.3,

5.3 of the.2017 edition);

j) The requirements for the diameter of wire ropes for butt welding and splicing have been changed (see 7.3,

6.2.3 of the.2017 edition);

1 Scope

GB 33955-2024 is the Chinese national standard on steel wire ropes for mine hoisting, in the field of metallurgy. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 25 June 2024 by the Ministry of Industry and Information Technology, and has been in force since 25 September 2024.

Classification: ICS 77.140.65, CCS H 49. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 228.1 Tensile test of metallic materials Part

GB/T 1839 Test methods for quality of zinc coating on steel products

GB/T 2104 General provisions for packaging, marking and quality certification of steel wire ropes

GB/T 8358 Method for determination of breaking force of steel wire rope

GB/T 8706 Terminology, marking and classification of wire ropes

GB/T 15030 Sisal steel wire rope core

GB/T 21965 Steel Wire Rope Acceptance and Defect Terminology

GB/T 43357 Test methods for general properties of steel wire ropes AQ 1043 Mining

Product Safety Signs and Labels MT/T 716 Technical conditions for acceptance of steel

wire ropes for important purposes in coal mines NB/SH/T 0387-2023 Lubricants for wire

ropes NB/SH/T 6019-2020 Friction hoist wire rope grease and maintenance oil YB/T 081

Rounding off of numerical values in metallurgical technical standards and determination of test values YB/T 4452-2015 Steel wire rope fiber core YB/T 5343-2015 Round steel wire for rope making

3 Terms and definitions

The terms and definitions defined in GB/T 8706 and the following apply to this document.

3.1 Composite core composite core; CC A composite steel wire rope core made of two or more materials such as steel wire (strand) and fiber or steel wire (strand) and solid polymer.