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

GB 21352-2008

Replacing GB/T 21352-2008

**Flame retardant steel cord conveyor belts used in underground
mines**

(English Translation)

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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" drafted.

This document replaces GB/T 21352-2008 "Fire-retardant Conveyor Belts with Steel Cords for Mine". Compared with GB/T 21352-2008, in addition to structural adjustments and editorial changes, the main technical changes are as follows.

- a) Changed the product structure (see 4.1, 3.2 of the 2008 edition);
- b) Changed the belt structure (see 4.2 Table 1, 3.1 of the 2008 edition);
- c) Changed the mark (see Chapter 5, 3.3 of the 2008 edition);
- d) changed the configuration of the belt (see 6.1, 4.1 of the 2008 edition);
- e) Changed the size and size deviation (see 6.2, 4.2 of the 2008 edition);
- f) The configuration and joints of wire ropes are deleted (see 4.3 of the 2008 edition);
- g) Changed the bonding strength between the cover layer and the core layer (see 6.3.2, 4.4.2 of the 2008 edition);
- h) Changed the adhesive strength of the cover layer and the buffer layer or transverse member (see 6.3.3, 4.4.3 of the 2008 edition);
- i) Changed the static bond strength of steel wire rope (see 6.3.4 Table 3, 4.4.4 Table 4 of the 2008 edition);
- j) Changed the description of the dynamic bond strength of steel wire rope (see 6.4, 4.5 of the 2008 edition);
- k) Changed the test method (see Chapter 7, Chapter 5 of the 2008 edition);
- l) Changed the inspection rules (see Chapter 8, Chapter 6 of the 2008 edition);
- m) Changed the marking, packaging, storage and transportation (see Chapter 9, Chapter 7 of the 2008 edition);

- n) Changed Figure A.1 and Procedure A.4, deleted the scope and Figure A.3 (see Appendix A, Appendix A of the 2008 edition);
- o) Changed Figure B.1 and Figure B.2, deleted the scope (see Appendix B, Appendix B of the 2008 edition);
- p) The test method for roadway propane combustion performance of conveyor belts has been deleted (see Appendix C of the 2008 edition).

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

This document specifies the structure, marking, technical requirements, test methods, inspection, Marking, packaging, storage and transportation.

This document applies to steel wire rope core flame retardant conveyor belts used in underground mines.

2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document.

GB/T 528 Determination of Tensile Stress-Strain Properties of Vulcanized Rubber or Thermoplastic Rubber GB/T 3512 Vulcanized rubber or thermoplastic rubber hot air accelerated aging and heat resistance test GB/T 3684 Conveyor Belt Conductivity Specification and Test Method GB/T 3685 Conveyor Belt Laboratory Scale Test Method for Combustion Characteristics GB/T 5752 Conveyor Belt Marking GB/T 5753 Determination method of total thickness and cover thickness of steel cord conveyor belt GB/T 5754.2 Longitudinal Tensile Test of Steel Cord Conveyor Belt Part 2: Determination of Tensile Strength GB/T 5755 Steel Cord Conveyor Belt Rope and Coating Adhesion Test in the original state and after heat aging GB/T 5756 Conveyor Belt Terms and Definitions GB/T 7986-2013 Conveyor belt roller friction test GB/T 9770 General Purpose Steel Cord Conveyor Belt GB/T 9867-2008 Determination of abrasion resistance of vulcanized rubber or thermoplastic rubber (rotating roller attrition machine method) GB/T 17044 Steel Cord Conveyor Belt Covering Layer and Core Layer Bonding Strength Test GB/T 33514 Determination of lateral and vertical displacement of steel wire rope core conveyor belt steel wire rope GB/T 39813 Conveyor Belt Storage and Handling Guidelines GB/T 39817 Conveyor belt propane burner medium-scale flammability test method HG/T 2410 Conveyor Belt Sampling ISO 20238:2018 Conveyorbelts-Drumfrictiontesting the terms and definitions defined in GB/T 5756 and the following apply to this document.

afterflame

The burning of the flame persists after the fire source is removed.

Flameless burning glowing Combustion that glows with heat (no flame).