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

GB/T 33510-2017

Replacing GB/T 33510-2017

**Conveyor belts with heat-resistant rubber covers - Heat
resistance of covers - Requirements and test methods**

(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 replaces GB/T 33510-2017 "Heat-resistant rubber cover layer - Requirements and test methods for heat resistance of conveyor belt cover layers".

Compared with GB/T 33510-2017, the main technical changes in the "Law" are as follows, apart from structural adjustments and editorial modifications.

---Added terms and definitions (see Chapter 3);

---Performance requirements have been changed (see Chapter 4, Chapter 3 in the.2017 edition);

---The test method has been changed (see Chapter 5, Chapter 4 in the.2017 edition).

This document is modified to adopt ISO 4195.2012 "Heat-resistant rubber cover - Requirements and test methods for heat resistance of conveyor belt cover".

This document includes a new chapter on "Terms and Definitions".

The technical differences between this document and ISO 4195.2012, and the reasons therefor, are as follows.

---The scope has been changed (see Chapter 1) to suit my country's technological conditions;

---The normative reference GB/T 5756 (see Chapter 3) has been added to adapt to my country's technical conditions;

---Performance requirements have been revised (see Chapter 4) to adapt to my country's technical conditions and increase operability;

---ISO 48 (see 5.1, 5.3.3.1) has been replaced with the normatively referenced GB/T 6031 to adapt to my country's technical conditions and add [further details needed].

Operability;

---ISO 37 (see 5.1, 5.3.3.2) has been replaced with the normatively referenced GB/T 528 to adapt to my country's technical conditions and increase operability.

Actual nature;

---The test temperature for Level 4 conveyor belts has been increased (see 5.2) to adapt to my country's technical conditions and improve operability;

---The heating procedure for the conveyor belt has been changed, and ISO 188 (see 5.3.1) has been replaced with the normatively referenced GB/T 3512 to accommodate...

Given my country's technological capabilities, this increases operability;

---The requirements for the preparation of test specimens for performance evaluation have been changed, and the normative references GB/T 30691 and GB/T 2941 have been replaced respectively.

ISO 18573 and ISO 23529 (see 5.3.2) should be adopted to adapt to my country's technical conditions and increase operability.

The following editorial changes have been made to this document.

---ISO 21183-1 has been replaced by GB/T 39825 (see Chapter 1), which is cited in the informational reference.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China Petroleum and Chemical Industry Federation.

This document is under the jurisdiction of the National Technical Committee on Standardization of Pulleys and Belts (SAC/TC428).

1 Scope

This document specifies the heat resistance requirements and test reports for the heat-resistant rubber conveyor belt cover layer, and describes the corresponding test methods.

This document applies to heat-resistant rubber conveyor belts with a cover layer thickness of not less than 4 mm.

This document does not apply to light-duty conveyor belts as specified in GB/T 39825.

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 528 Determination of tensile stress-strain properties of vulcanized rubber or thermoplastic rubber (GB/T 528-2009, ISO 37.

2005, IDT)

GB/T 2941 General procedures for specimen preparation and conditioning in physical testing of rubber (GB/T 2941-2025, ISO 23529.

2016, IDT)

GB/T 3512 Accelerated aging and heat resistance tests of vulcanized rubber or thermoplastic rubber in hot air (GB/T 3512-2014, ISO 188.

2011, IDT)

GB/T 5756 Conveyor Belt Terminology and Definitions

GB/T 6031 Determination of hardness of vulcanized rubber or thermoplastic rubber (10IRHD~100IRHD) (GB/T 6031-2017)

ISO 48.2010, IDT

GB/T 30691 Test environment and conditioning time for conveyor belts (GB/T 30691-2014, ISO 18573.2012, IDT)

3 Terms and Definitions

The terms and definitions defined in GB/T 5756 apply to this document.

4 Performance Requirements

The tests shall be conducted according to the methods specified in Chapter 5, and the permissible ranges of variation for hardness, elongation at break, and tensile strength shall conform to Table 1.

Require.