



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

GB/T 10715-2021

**Belt drives - V-ribbed belts, joined V-belts and V-belts including
wide section belts and hexagonal belts - Electrical conductivity
of antistatic belts: Characteristics and methods of test**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces GB/T 10715-2002 "Belt drive V-ribbed belts, combined V belts and single V belts including wide V belts and hexagonal belts.

Conductivity with antistatic tape. requirements and test methods, compared with GB/T 10715-2002, main technical changes except for editorial changes as follows.

---Modified normative reference documents (see Chapter 2, Chapter 2 of the.2002 edition);

---Added the angle requirements of the test electrode when the wedge surface of the V-ribbed belt is the transmission surface (see 5.2.3.1);

---Added the requirement of the test electrode when the back of the V-ribbed belt is the transmission surface (see 5.2.3.2);

---Added the calculation method and example of the width of the V-ribbed belt (see 5.3);

---Modified the state adjustment and test conditions of the production control test method (see 7.1, 7.1 of the.2002 edition);

---Modified the specified value of the resistance of the belt (see 7.4, 8.6, 7.4, 8.6 in the.2002 edition);

---Added the schematic diagram of the test electrode when the back of the V-ribbed belt is the transmission surface (see 8.6).

This standard uses the redrafting method to amend and adopt ISO 1813.2014 ``Belt Driven V-ribbed Belts, Combined V-belts, and Wide V-belts, Hexagonal Belts

The conductivity of a single V-belt antistatic belt inside. requirements and test methods.

Compared with ISO 1813.2014, this standard has technical differences.

The set vertical single line (?) is marked, and a list of the corresponding technical

differences and their reasons is given in Appendix A.

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

This standard is under the jurisdiction of the National Belt Wheels and Belt Standardization Technical Committee (SAC/TC428).

Drafting organizations of this standard. Wuxi Zhonghui Rubber Technology Co., Ltd., Maanshan Ruisheng Industry and Trade Co., Ltd., Ningbo Karcher Tape Co., Ltd.

Company, Zhejiang Fengmao Technology Co., Ltd., Shaoxing Huafangyuan Transmission Technology Co., Ltd., Zhejiang Baoerli Adhesive Tape Co., Ltd., Qingdao City

Quality Supervision and Inspection Institute.

1 Scope

This standard specifies the maximum resistance and its test method.

This standard is only applicable to new belts intended to be used in occasions where there is a risk of explosion or fire. The test is set up to ensure that the belt has enough

To discharge the electric charge generated during operation.

In the product control test, it is determined by the national standard or the agreement of relevant parties whether to test each strip of a batch of belts or

A certain percentage of a batch of belts is selected for testing.

Note. For the product acceptance test, the belt manufacturer should determine which electrode and conductive coating material need to be used.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article

Pieces. For undated reference documents, the latest version (including all amendments) is applicable to this document.

GB/T 1171 Ordinary V belt for general transmission

GB/T 2941 Rubber Physical Test Method General Procedure for Sample Preparation and Adjustment (GB/T 2941-2006, ISO 23529.2004,

IDT)

GB/T 10821 V-belt and V-ribbed belt size for agricultural machinery (GB/T 10821-2008, ISO 5289..1992, ISO 3410.

1989, NEQ)

GB/T 12730 Narrow V-belt for general transmission

GB/T 12732 Automotive V belt

GB/T 13552 Automobile V-ribbed Belt (GB/T 13552-2008, ISO 9981..1998, ISO 11749..1995, NEQ)

GB/T 15327 Variable speed wide V belt for industrial use

GB/T 33513 belt drive automobile poly-v belt and pulley PK type. size (GB/T 33513-2017, ISO 9981..1998,

MOD)

HG/T 2819 joint narrow V-belt

HG/T 3745 Joint Group Ordinary V Belt

HG/T 4494 Industrial V-ribbed Belt

3 Conductivity regulations

During the production control test (that is, the factory test, carried out in accordance with Chapter 7), the measured resistance value should not be greater than Table 1, Table 2, Table 3 or Table 4.

The value given in.

In the acceptance test (i.e. laboratory test, carried out according to Chapter 8), the measured resistance value should not be greater than that calculated according to the formula specified in 8.6

Numerical value.