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

GB 12731-2014

Replacing GB 12731-2003

Fire-resistant V-belts

阻燃V带

(English Translation)

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Foreword

5.5 This standard security features are mandatory, the rest are recommended.

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

This standard replaces GB 12731-2003 "fire-retardant V-belts", compared with GB 12731-2003, in addition to editorial changes outside the main technical change of the following.

--- Modify retardant V band structure representation (see 3.1 and version 3.1 of 3.2,2003 and 3.2);

--- Increased flame retardancy V-belt model representation (see 4.1);

--- Increased flame retardancy V belt fatigue performance requirements and test methods (see 5.4 and 6.3);

--- Retardant modified V with antistatic properties representation (see 5.5.2, 2003 version 4.4.2);

--- Increased performance requirements and test methods for flame retardant automotive V-belts (see Chapters 5 and 6).

The standard proposed by China Petroleum and Chemical Industry Association.

This standard by the National Standardization Technical Committee and the friction belt drive with pulleys Technical Committee (SAC/TC428/SC3) centralized.

This standard was drafted. Zhejiang Sanwei Rubber Products Co., Ltd., Ningbo lush Far East Rubber Co., Ltd., Zhejiang Ken Laite drive Industry Co., Ltd. Zhejiang Kaiou belts, Zijingang Belt Co., Ltd., Qingdao City Product Quality Inspection Technology Research Institute.

1 Scope

This standard specifies the structure, type and marking requirements, test methods, inspection rules retardant V-belt, marking, labeling, packaging, transport and Storage.

This standard applies to mines and other requirements of the V-belt fire-retardant and antistatic occasions.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB 338 industrial methylated GB/T 394.1 industrial alcohol Strength and elongation test method GB/T 3686 V belt stretching Strength test method GB/T 3688 V belt cord adhesion GB/T 10715 belt drive V-ribbed belt, the group V-belt and includes a wide V-belt, hexagonal belt, including a single V-belt antistatic belt guide Electrical. Requirements and test methods (GB/T 10715-2002, ISO 1813:1998, MOD) GB/T 11544 Belt drives - V belt and narrow V Size (datum width) (GB/T 11544-2012, ISO 4184.

1992, MOD)

GB/T 11545 V belt drive for the automotive industry with a fatigue test (GB/T 11545-2008, ISO 5287:2003, MOD) GB/T 13352 V belt drive for the automotive industry with its pulley size (GB/T 13352-2008, ISO 2790:2004, MOD) GB/T 14562 V belt fatigue test method torque method Strength Test Method interlayer HG/T 3864 V with adhesive MT182 alcohol burner structure and the technical requirements

3 Structure

3.1

V with its flame retardant cross-sectional shape into ordinary V-belt, narrow V-belt fire-retardant; structured into edging and trimming of formula V-belt type flame retardant V belt, which, trimming type flame retardant Trimming V-belt is divided into ordinary V-belt, a toothed belt and V bottom trimming retardant plastic flame retardant V belt clip Buce edge.

3.2

V-belt from the flame-retardant cloth, top cloth, rubber roof, rubber buffer, tensile body, the end of plastic cloth, the end of cloth and other components (see Figure 1).

a) Hemming retardant V belt b) Trimming retardant V-belt

Figure 1 Schematic diagram of the flame retardant V-belt

c) the toothed belt trimming retardant V d) primer Buce edge retardant V belt clip

Explanation.

- 1 --- cloth;
- 2 --- top cloth;
- 3 --- rubber roof;
- 4 --- rubber buffer;
- 5 --- tensile body;
- 6 --- primer;
- 7 --- end of plastic cloth;
- 8 --- base fabric.

Figure 1 (cont.)

4.1 Model

V-belt type flame retardant into Z, A, B, C, D, E six kinds of ordinary V belt with teeth fire-retardant to ZX, AX, BX, CX, DX, EX FIG.

Retardant narrow V-belt model is divided into SPZ, SPA, SPB, SPC, 9N, 15N, 25N has seven toothed flame narrow V belt XPZ, XPA, XPB, XPC, 9NX, 15NX, 25NX representation.

Retardant automotive V belt model is divided into AV10, AV13, AV15, AV17, AV22 five kinds toothed flame automotive V belt AVX10, AVX13, AVX15, AVX17, AVX22 representation.

4.2 Mark

Mark example retardant V-belt. In line with GB 12731, flame retardant, A-type, the reference flame length 1400mm V-belt for the Cases, be marked as.

Example.

GB 12731-FR-A1400

Tag of each element have the following meanings.

FR --- retardant V-belt sign;

A --- model;

1400 --- reference length of 1400mm.

5.1 Appearance quality

Appearance quality flame retardant V-belts shall comply with the requirements of Table 1.

Table 1 retardant V with the appearance of quality requirements

Type the name of the defect claim Retardant V-belt Hemming retardant V-belt Wrapped with a broken horn Outsourcing cloth on each side with a total length should not exceed the length of 30% (inner wrapper should not have) Drum kits Take sewing cloth disengaged Take the body flattening Cavernous There should be no Burr burr-sided top should not exceed 0.5mm Retardant Trimming V-belt Drum kits with partial cracking Cavernous There should be no Retardant narrow V-belt Retardant edging narrow V-belt Face projections SPZ, 9N type should not have; SPA, SPB, 15N lack this type Trap height should not exceed 0.5mm; SPC, 25N type should Height should not exceed 1mm Wrapped breakage SPZ, 9N type should not have; SPA, SPB, 15N, SPC, 25N Outsourcing should not exceed a total length of cloth worn with a long 25% of the inner wrapper should not have Take sewing cloth disengaged SPZ, 9N type should not have; SPA, SPB, 15N, SPC, 25N This type allows only one defect shall not exceed 30mm long and 3mm wide There should be spongy Burr burr-sided top should not exceed 0.5mm Trimming retardant narrow V-belt Drum kits with partial cracking Asymmetric angle Cavernous There should be no Retardant automotive V belt Burr edging V with the top surface of one side should not exceed 0.5mm burr Drum kits distortion Cracking There should be no Trimming V-belt on both sides and the top surface of the cutting Heavy edge, hierarchical, top cloth seams disengaged Obviously bent cord There should be no

5.2 Dimensions

Reference length limit deviations flame retardant narrow V-belt and V-belt, exposing the height of center distance variation, the difference with the group by GB/T 11544 Provisions. Effective length limit deviations retardant automotive V belt, exposing the height of center