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

GB 12732-2008

Replacing GB 12732-1996

Automotive V-belts

汽车V带

(English Translation)

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Foreword

5.3.4 This standard is mandatory, the rest are recommended.

This corresponds to the Japan Automobile Standards Association standards JASOE107-88 "Automotive V-belts", with a degree of consistency JASOE107-88 Non-equivalent.

This standard replaces GB 12732-1996 "car V belt." the main difference between this standard and JASOE107-88 as follows.

--- Omitted V belt fatigue test methods, the use of ISO 5287 "tape drive Fatigue Testing the

automotive industry with narrow V-belt," insufficient Section shall be supplemented by JASOE107; namely GB/T 11545 referenced on;

--- Deleting the V-belt pulley size and length measuring size, the use of ISO 2790 "with the automotive industry drive V-belt and pulley size" Insufficient part shall be supplemented by JASOE107; namely GB/T 13352 referenced on;

--- Increase AV15 model car V belt.

This standard compared with GB 12732-1996 main changes are as follows.

--- Remove the V-belt Qualified original fatigue life requirements (1996 version 4.6.1), instead of the original one product requirements, canceled a product;

--- Remove glass fiber rope V belt Qualified Fatigue Test tension (1996 version 6.5.2);

--- Increased trimming of formula V with the appearance of quality requirements (edition 5.1).

The standard proposed by China Petroleum and Chemical Industry Association.

This standard tape by the chemical industry Standardization Technical focal point.

This standard was drafted. Zijingang Belt Co., Ltd., Zhejiang three Guinness Rubber Co., Ltd., Guizhou public Rubber Co.

Secretary, Zhejiang three-dimensional Rubber Products Co., Northwestern Polytechnical University, Weishi County, Henan Zhongyuan Rubber Co., Ltd., Qingdao Rubber Industry Institute the study.

1 Scope

This standard specifies the car V-belt (hereinafter referred to as V-belt) the classification of products, materials, requirements, sampling, test methods and marking, labeling, package Loading, storage and transportation rules.

This standard applies to cars with an internal combustion engine-driven auxiliary equipment (for example. fans, generators, pumps, compressors, power steering pumps, etc.) steam Car V-belt.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

Strength and elongation test method GB/T 3686 V belt stretching GB/T 11545 Automotive V belt fatigue test method (GB/T 11545-1996, eqv ISO 5287. 1985) GB/T 13352 Automotive V Size (GB/T 13352-1996, neq ISO 2790. 1989) Category 3 Type 3.1 V-belt type of edging and trimming V-belts V-belts according to its structure is divided into two kinds. Trimming V-belt is divided into. general Trimming V-belt, with teeth cut Edge V belt clip and primer three types Buce edge V belt (see Figure 1).

a) wrapped V belt b) Normal Trimming V-belt

c) the toothed belt trimming V d) primer Buce edge V belt clip 1 --- cloth;

2 --- top cloth;

3 --- rubber roof;

4 --- rubber buffer;

5 --- core cord;

6 --- primer;

7 --- end of plastic cloth;

8 --- base fabric.

Chart 1 Vp band

3.2 Model

V-belts should have a symmetrical trapezoidal cross-section, according to the model of the V-belt top width divided AV10, AV13, AV15, AV17, AV22 Other five.

4.1 Rubber

Top plastic, rubber buffer, consisting of primer should be uniform, and its performance should be suitable for their proper performance.

4.2 Fabric

Cloth, cloth top, bottom and bottom rubber cloth fabric should be cotton or synthetic fibers woven into the cloth, its warp and weft density should be uniform, the yarn and the fabric must not have defects, distortions affecting the quality defects.

4.3 Core cord

Core rope cord should be a high-performance polyester fiber and other fibers, which should be uniform twist.

5.1 Appearance quality

The appearance of the V-belt should not have any visible impact and use of distortion, cracks, holes, bubbles and embedded objects and other defects. Hemming formula V with the top surface of the one-sided burr width not exceeding 0.5mm, cloth interior trim package can not be damaged. Trimming V belt on both sides and the top surface of the cut is not allowed Cut heavy side, not allowed to have a hierarchical, top cloth over sewing cord disconnected and obvious defects such as bending.

5.2 Dimensions

V Size and deviation should be consistent with the provisions of GB/T 13352 of.

5.3.1 Tensile Properties

V belt tensile strength, elongation force reference in Table 1.

Strength, reference force elongation in Table 1 Vp band stretching Model AV10 AV13 AV15 AV17 AV22 Tensile strength/N $\geq$ 2260 3140 3700 4420 7060 Reference force elongation /% $\leq$ 4 4 4 6 6 Reference force/N 790 1480 1800 2360 3930

5.3.2 High temperature performance

V 7.3 with high temperature resistance according to the method specified test after test V belt does not allow cracks.

5.3.3 Low temperature performance

V with low temperature resistance test according to the method specified in 7.4, V belt after the test does not allow cracks.

6 Sampling

6.1

V belt should be carried out one by one appearance quality inspection.

6.2

the same type of continuous manufacturing, the same material V belt to more than 50,000 batch. Extraction should be less than 0.5%. Feet Inch inspection, there are requirements with the group one by one V-belt should be the length of the examination, with the group and make a mark.

6.3

V with tensile properties of each type of test performed at least twice a month.