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

GB/T 3688-2025

Replacing GB/T 3688-1998

Test method for adhesion performance of V-belt cords

V带线绳粘合性能试验方法

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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 for standardization documents" Drafting.

This document replaces GB/T 3688-1998 "Test method for adhesion strength of V-belt cords". Compared with GB/T 3688-1998, except for the structural In addition to adjustments and editorial changes, the main technical changes are as follows.

- a) The scope has been changed and the stripping method has been added (see Chapter 1, Chapter 1 of the 1998 edition);
- b) Added terms and definitions (see Chapter 3);
- c) The test principle has been changed (see Chapter 4, Chapter 3 of the 1998 edition);
- d) The size and structure of the test holder have been changed, and sample preparation tools have been added (see Chapter 5, Chapter 4 of the 1998 edition);
- e) Added general test rules (see Chapter 6);
- f) The test procedure was changed and fatigue test was added (see Chapter 7, Chapter 6 of the 1998 edition);
- g) The test data processing has been changed (see Chapter 8, Chapter 7 of the 1998 edition);
- h) Added the dynamic fatigue test method for ordinary cloth straps (see Appendix A).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the 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 Rubber and Rubber Products (SAC/TC35).

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This document was first published in 1998 and this is the first revision.

1 Scope

This document describes a test method for determining the adhesion between the cord and rubber in rubber V-belts using the extraction method and the peeling method, respectively.

This document is applicable to the determination of the adhesion between the cord and rubber in rubber V-belts and the determination of the adhesion between the cord and rubber in rubber multi-ribbed belts. Refer to the implementation.

2 Normative references

GB/T 8170

GB/T 11356.1

GB/T 11357

GB/T 11545

GB/T 12730

GB/T 12735

GB/T 12833

GB/T 16491

GB/T 32110

3 Terms and definitions

The terms and definitions defined in GB/T 32110 and the following apply to this document.

3.1

The bonding strength of the bonding interface between the cord skeleton and the rubber of

a non-fatigued rubber V-belt.

3.2

The bonding strength of the bonding interface between the cord skeleton and the rubber after the rubber V-belt has undergone dynamic fatigue operation.

3.3

The ratio of dynamic bond strength to initial bond strength.

4 Test Principle

The initial bonding strength and dynamic bonding strength between the cord and rubber in the V-belt were measured by the extraction method and the peeling method respectively, and the bonding strength was calculated.