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

GB/T 5754.1-2015

**Steel cord conveyor belts -- Longitudinal traction test -- Part 1:
Measurement of elongation**

钢丝绳芯输送带 纵向拉伸试验 第1部分：伸长率的测定

(English Translation)

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Foreword

GB/T 5754 "steel cord conveyor belt longitudinal tensile test" is divided into two parts.

--- Part 1. Determination of elongation;

--- Part 2. Determination of tensile strength.

This section GB/T 5754 Part 1.

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

This section uses the translation method identical with ISO 7622-1:2013 "steel cord conveyor belt longitudinal tensile testing - Part 1. Elongation Rate Determination. " Consistency correspondence between this part of international documents and normative references of our files are as follows.

--- GB/T 30691-2014 conveyor test environment and conditioning time (ISO 18573:2012, IDT).

This part is proposed by the China Petroleum and Chemical Industry Association.

This part of the National Standardization Technical Committee of the pulley and the belt (SAC/TC428) centralized.

This section is drafted. Qingdao Shinkansen Technology Consulting Co., Ltd., Zhejiang three-dimensional rubber products Co., Ltd., Shandong a rubber Ltd, Baoding on tape Limited, Qingdao University of Science and Technology.

Introduction

GB/T 5754 test method described in this section, is the use of destructive testing to verify performance conveyor belt elongation core rope. by in this test it is destructive, so this test is only used in the event of litigation or without a certificate issued by the manufacturer with a core.

There is a difference between the unused rope elongation and elongation of the rubber-coated over the rope. To this end, according to the test side Determination of core values and with manufacturers certificate values shown may vary.

Steel cord conveyor belt longitudinal tensile test Determination of elongation. Part 1

1 Scope

GB/T 5754 provisions of this part of the determination of steel cord conveyor belt core rope elongation. When measured by rope Stretching action corresponding to the 10% and 60% of the tensile strength of a predetermined value.

This section applies only to the steel cord conveyor belt.

Note: Determination of tensile strength specified in GB/T 5754.2 in.

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.

ISO 18573 conveyor test environment and conditioning time
(Conveyorbelts-Testatmospheresandcondi-tioningperiods) Principle 3 Taken from the conveyor belt core rope tensile test. Using tensile testing machine or similar when measured by measuring the elongation corresponding to the Rolly Tensile strength specified elongation of 10% and 60% of value. Holder moving speed tensile testing machine shall conform to and kept constant.

4 Device

4.1

tensile testing machine shall meet the following requirements.

- a) force strength testing machine with the sample can be applied to adapt;
- b) the moving speed of the holder can be adjusted to 25mm/min $\pm$ 5mm/min and maintained constant;
- c) the holder is adjustable to the spacing of not less than 250mm.

4.2

rope fixing means to ensure that the specimen sample should not slide during the test.

You can use two or 50mm diameter of at least 10 times the rope diameter d (see FIG. 1) fixed sheave constituted under the fixture.

4.3

elongation tester accuracy of at least 0.01%.

Rope elongation is generally small, it should be sensitive and accurate meter stretch. Such elongation tester in a sample case was it may be damaged when pulled off, therefore, the measured force limit set at 60% of the tensile strength of a predetermined value.

Elongation tester can be applied due to the rotation caused by distortion of the nature of the rope is better.

Elongation curve means recording 4.4 with tension changes, if any.