

ICS 53.040.20

CCS G 42



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

GB/T 32330-2015

**Light conveyor belts -- Determination of the maximum tensile
strength**

轻型输送带 最大拉伸强度的测定

(English Translation)

Issued on: December 31, 2015

Implemented on: July 1, 2016

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine**

Table of Contents

Foreword...	3
1 Scope...	4
2 Normative references...	4
3 Terms and definitions...	4
4 Symbols...	5
5 Principle...	6
6 Apparatus...	6
7 Test pieces...	6
8 Procedure...	8
9 Calculation and expression of results...	8
10 Test report...	9
Bibliography...	10

Foreword

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

This Standard uses translation method and identically adopts ISO 21180.2013

Light conveyor belts - Determination of the maximum tensile strength (English version).

The Chinese document which has consistency with the international normative reference in this Standard is as follows.

GB/T 30691-2014 Conveyor belts - Test atmospheres and conditioning periods (ISO 18573.2012, IDT).

This Standard makes the following editorial modifications.

- deleted subclause 6.1 in ISO 21180.2013.

This Standard was proposed by China Petroleum and Chemical Association.

This Standard shall be under the jurisdiction of Sub-committee on Conveyor Belts of National Technical Committee on Pulley and Belt of Standardization Administration of China (SAC/TC 428/SC 1).

The drafting organizations of this Standard. Qingdao Shinkansen Technical Consulting Co., Ltd., Shanghai Yongli Belting Co., Ltd., Qingdao University of Science and Technology.

Main drafters of this Standard. Xin Yonglu, Xie Wenfeng, Lv Guiqin.

Light conveyor belts -

Determination of the maximum tensile strength

1 Scope

This Standard specifies a test method for the determination of the maximum tensile strength of light conveyor belts, according to ISO 21183-1.

This Standard is applicable to the light conveyor belts specified in ISO 21183-

1 This Standard is not applicable to the conveyor belts in ISO 283 application

scope.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 7500-1, Metallic materials - Verification of static uniaxial testing machines - Part 1. Tension/compression testing machines - Verification and calibration of the force-measuring system

ISO 18573, Conveyor belts - Test atmospheres and conditioning periods

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1 tensile load

force per unit of belt width, expressed in newtons per millimeter (N/mm)

NOTE 1 In light conveyor belt technology, the definition of tensile load deviates from that commonly used. It is measured in force per unit of belt width, in newtons per millimeter, while normally it is defined as a stress, i.e. a force per unit of cross section, in newtons per square millimeter (N/mm²).

NOTE 2 In light conveyor belt technology, the symbol for the tensile load is k and the maximum tensile strength is designated as k_{max} , expressed in newtons per millimeter (N/mm).

.....