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

GB/T 34366-2017

**Light conveyor belts -- Determination of the electrostatic field
generated by a running light conveyor belt**

轻型输送带轻型输送带运转产生的静电场的测定

(English Translation)

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Foreword

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

This standard uses the translation method identical with ISO 21179:2013 "light conveyor belt light conveyor belt operation of the electrostatic field measured Set "(in English).

The documents of our country that are consistent with the corresponding international documents that are normative references in this standard are as follows.

--- GB/T 3505-2009 Geometrical product specifications (GPS) Surface texture contouring Terms, definitions and surface structure Parameters (ISO 4287:1997, IDT)

--- GB/T 11358-1999 with drive belt and pulley size and tolerance (eqvISO 22.1991)

--- GB/T 30691-2014 conveyor belt test environment and state conditioning time (ISO 18573:2012, IDT) this standard proposed by the China Petroleum and Chemical Industry Federation.

This standard by the National Belt and Belt Standardization Technical Committee Conveyor Belt Technical Committee (SAC/TC428/SC1) centralized.

This standard drafting unit. Qingdao Shinkansen Technical Consulting Co., Ltd., Qingdao University of Science and Technology, Qingdao New Material Technology Industrial Park Development Limited the company.

1 Scope

This standard specifies the test method for determining the electrostatic field generated during the operation of light conveyor belts specified in ISO 21183-1.

Since the resistance measured in accordance with ISO 21178 can not be adequately described in many situations where the light conveyor belt is antistatic, Dynamic programs are necessary.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article Pieces. For undated references, the latest edition (including all amendments) applies to this document.

ISO 22 Belt Drives Belt and Belt Dimensions and Tolerances
(Beltdrives-Flattransmissionbeltsandcorrespond-ingpulleys-Dimensionsandtolerances) ISO 4287 Geometrical product specifications (GPS) Surface texture profiling Terms, definitions, and surface texture parameters [GeometricalProductSpecifications (GPS) -Surfacetexture.Profilemethod-Terms, definitionsand surfacetextureparameters] ISO 18573 conveyor belt test environment and conditioning time
(Conveyorbelts-Testatmospheresandcondi-tioningperiods) ISO 21181 light conveyor belt Determination of relaxation modulus of elasticity
(Lightconveyorbelts-Determinationofthere-laxedelasticmodulus)

3 Principle

The specimen is run under the specified conditions and an electrostatic field is generated, recording its change over time.

The two sides of the belt and pulley in contact were tested in sequence.

4 Device (see Figure 1)

4.1

A pair of pulleys A pair of pulleys as described below.

- a) Electrical connection and grounding;
- b) steel;
- c) not less than.200mm in diameter and 120mm in width;
- d) unprocessed, maximum surface roughness $R_a = 1.6 \mu\text{m}$, unplated according to ISO 4287;
- e) chrome-plated finish;
- f) fixed cylindrical capstan;
- g) Movable driven wheel for tensioning, with crown to ISO 22 ($h = 0.6\text{mm}$).