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

GB/T 30691-2014

Conveyor belts -- Test atmospheres and conditioning periods

输送带 试验环境和状态调节时间

(English Translation)

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Table of Contents

Foreword
Introduction
1 Scope
2 Normative references
3 Terms and Definitions
4 Pretreatment

Foreword

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

This standard uses the translation method identical with ISO 18573:2012 "conveyor belt test environment and conditioning time" (in English).

Correspondence between the consistency of the standards of international documents and normative references of the following documents.

HG/T 4601.1-2014 Light conveyor belts - Part 1. Basic properties and applications (ISO 21183-1:2005, IDT).

This standard made the following editorial changes.

--- "This International Standard" be replaced by "this standard";

--- Delete international standards foreword.

The standard proposed by China Petroleum and Chemical Industry Association.

This standard by the National Standardization Technical Committee pulley and the belt conveyor Technical Committee (SAC/TC428/SC1) centralized.

Introduction

Generally considered the state of conditioning before testing is very important, but not necessarily all in some trials. Its purpose is to test the open Beginning a regular basis, to exclude unnecessary variables, to test the accuracy of the optimum increase.

In order to achieve this, some of the variables that standardization is very necessary.

In addition to steel cord conveyor belt, fabric conveyor belt all contain ingredients. They are highly hydrophobic or somewhat hydrophilic. similar , The polymer layer or a cover layer having a thermoplastic or susceptible to thermal aging. Any of these factors are likely to

have a significant characteristic of the conveyor belt influences. When you want to determine the status and adjust if necessary to select the most appropriate state, these factors should be taken into account. This standard preparation phase Segment has been considered given the provisions of ISO 139 [1], ISO 23529 [2] and ISO 2231 [3].

Conveyor test environment and conditioning time

1 Scope

This standard specifies all types of conveyor belts used for conditioning and testing temperature, humidity and time, regardless of its cover layer material is rubber Rubber or plastic. It also provides for the belt made from a sample to be tested shall comply with the requirements of the time interval.

This standard does not include special conditions for a particular test or material or simulate specific climate.

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 21183-1 Light conveyor belts - Part 1. Basic performance and application
(Lightconveyorbelts-Part 1. Principal characteristicsandapplications)

3 Terms and Definitions

The following terms and definitions apply to this document.

Standard environment standardatmosphere Sample conditioning and testing of the specified temperature and humidity.

Note: See chapter 5.

Standard state standardcondition Standard environment, the conveyor belt when the sample reached equilibrium state.

Water balance moistureequilibrium when the belt sample was exposed to free movement in the air, there is no significant change in the quality of state achieved.

Conditioning in order to improve the reproducibility of the test results, the sample should be placed in a specified period of time prior to testing under standard environment.

Thermal equilibrium at uniform temperature conditions, conveyor sample temperature and the ambient temperature at various points within 1 °C difference between the state achieved.

4 Pretreatment

If the belt fabric ingredient is a highly hygroscopic material or test methods are difference of moisture content of the sample is highly sensitive Sex, then the moisture from drying surface hysteresis curve to get the water balance method is very desirable. This should not by relative humidity at 10% and the temperature at 60 °C ~ 70 °C environment between the sample pretreatment to obtain.