



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

**中华人民共和国国家标准**

GB/T 10822-2003

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**Flame retardant conveyor belts of textile construction  
for general use**

**一般用途织物芯阻燃输送带**

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China**

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## Foreword

This Standard corresponds to JIS K 6324:2000 *Flame Retardant Conveyor Belt Grades and Test Methods*; degree of consistency with JIS K 6324:2000 is not equivalent.

This Standard replaces GB/T 10822-1989 *Flame Retardant Conveyor Belt for General Purpose*.

The main differences between the Standard and JIS K 6324:2000 are as follows:

—Deleted  $K_1$  retardant property requirements because the property is part of flame retardant belt requirements for underground purpose.

—National Standards GB/T 3685-1996 which make equivalent adoption of ISO 340:1988 substitute for liquefied gas blast burner combustion test method in JIS K 6324;

—Added static conductive requirements for belt and more stringent;

—Deleted the steel cord conveyor belt flame retardant requirements because the corresponding national Standards already exist.

—Added general physical properties requirements for conveyor belt.

This Standard, in comparison with GB/T 10822—1989, has the major changes as follows:

—Increased physical properties indicators for cover layer of belt, and added wear resistance and aging properties (4.4.1 of 1989 edition, 4.4.1 of this edition);

—Deleted the belt horizontal full-thickness tensile strength, full-thickness longitudinal elongation at break and interlayer adhesion strength of the cotton canvas core belt, while adopted the same provisions with that of the GB/T 7984-2001, consistent with the provisions of the new international Standards for ordinary conveyor belt. (4.4.2 and 4.4.3 of 1989 edition, 4.4.2 and 4.4.3 of this edition);

—Increased requirements for level of flame retardant property to two compared with one in the original Standards, and tightened requirements step by step (4.5 of 1989 edition, 4.5 of this edition);

—Replaced the samples number original Standard specified with the samples number required in GB / T 7984-2001, the, and be consistent with ordinary conveyor belt international Standards. (6.3 of 1989 edition, 6.3 of this edition);

This Standard is proposed by China Petroleum and Chemical Industry Association.

This Standard is under the jurisdiction of Aeronautical Materials and Thermal Technology Standardization Technology.

The drafted unit of this Standard is: Zhejiang Double Arrow Rubber Co., Ltd., Qingdao Rubber Industry Research Institute.

Main drafters of this Standard: Shen Gengliang, Shen Huimin, Zhu Hanhua, Li Jian, Han Deshen.

This Standard is first released in March 1989.

# Flame retardant conveyor belts of textile construction for general use

## 1 Scope

This Standard specifies product classification, technical requirements, test methods, inspection rules and signs, packaging, storage and transport requirements, etc. for flame retardant conveyor belt (hereinafter called "belt") of textile construction with rubber cover layer for general purpose.

This Standard applies to flame retardant conveyor belt of textile construction for general purpose used in chemical, coal, metallurgy and electric power and other industries.

This Standard does not apply to the flame retardant conveyor belt used in underground coal mine and the flame retardant conveyor belt with metal skeleton.

## 2 Normative References

The articles contained in the following documents have become this standard when they are quoted herein. For the dated documents so quoted, all the modifications (excluding corrections) or revisions made thereafter shall not be applicable to this Standard. For the undated documents so quoted, the latest editions shall be applicable to this Standard.

GB/T 528 Rubber, vulcanized or thermoplastic--Determination of tensile stress-strain properties (GB/T 528-1998, eqv ISO 37: 1994)

GB/T 3512 Rubber vulcanized--Accelerated ageing or heat-resistance test--Air-oven method (GB/T 3512-2001, eqv ISO 188: 1998)

GB/T 3684 Conveyor belts; Electrical conductivity; Specification and method of test (GB/T 3684-1983, neq ISO 284: 1982)

GB/T 3685-1996 Conveyor belts-Flame retardation-Specifications and test method (eqv ISO 340: 1988)

GB/T 3690 Conveyor belts of textile carcass—Test method for tensile strength and

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