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

GB/T 30558-2025

Replacing GB/T 30558-2014

Classification of technical textiles

产业用纺织品分类

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Foreword

This document is in accordance with GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents". Drafting is scheduled.

This document replaces GB/T 30558-2014 "Classification of Industrial Textiles". Compared with GB/T 30558-2014, except for structural adjustments...

Aside from editorial changes, the main technical changes are as follows.

The classification principles have been changed, clarifying the relationship and principles between facets and categories (see Chapter 4, Chapter 3 of the 2014 edition); a) The secondary categories in the classification by application area have been changed (see 5.1.1-5.1.16, 4.1-4.16 in the 2014 version); b) The classification dimension based on processing technology and product form has been added (see 5.2); c) The following categories of textiles have been removed. tarpaulin textiles, industrial felt textiles, insulation and insulating textiles, and structural reinforcement textiles.

Textiles of cords (cables) (see 4.3, 4.6, 4.7, 4.11 and 4.14 in the 2014 edition).

d) The classifications of "medical and health care textiles" and "hygienic textiles" have been changed (see 5.1.6, 5.1.7, 2014 edition). 4.8);

e) The classification of "Emergency and Security Textiles" has been changed (see 5.1.9, 4.10 in the 2014 edition); f) The categories of textiles have been expanded to include apparel and home furnishing textiles, marine textiles, energy industry textiles, and military (special field) textiles.

Product categories (see 5.1.3, 5.1.10, 5.1.13 and 5.1.15).

g) Please note that some content in this document may involve patents. The issuing

organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China National Textile and Apparel Council.

This document is under the jurisdiction of the National Technical Committee on Standardization of Industrial Textiles (SAC/TC 606).

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This document was first published in 2014, and this is its first revision.

Industrial textiles classification

1 Scope

This document defines the terminology and definitions for industrial textiles, specifies the classification principles and methods, product classification, and provides a list of various product types. Examples.

This document applies to the classification and interpretation of industrial textiles.

2 Normative references

This document has no normative references.

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 technical textiles

Textiles that are specially designed with engineering structural features, specific functions, and application areas.

Note. Industrial textiles are generally distinguished from general apparel textiles and household textiles. Industrial textiles are mainly used in industry, agriculture, animal husbandry, fisheries, and civil engineering.

Fields include engineering, construction, transportation, healthcare, culture and sports, environmental protection, new energy, aerospace, and defense.

4 Classification Principles and Methods

4.1 The classification system takes into account both the current situation and new developments, leaving room for expansion, thus forming a scientific and reasonable classification system.

4.2 Based on the most stable essential attributes or characteristics of the product, first classify them according to the surface classification method, dividing them into two categories. by application and by process and product form.

"Surface"; then, following the linear classification method, the objects within each surface are successively divided into several categories; under each category, several examples

are listed. Type of product.

4.3 Different "faces" form a parallel relationship, "faces" and categories form a subordinate relationship, and categories within the same "face" form a parallel relationship. List relationships.

5.1.1 Agricultural textiles

It is applied to agricultural cultivation, horticulture, forestry, animal husbandry, aquaculture and other agricultural, forestry, animal husbandry and fishery activities, and in the growth and prevention of plant and animal diseases.

Textiles used during the protection and storage of agricultural products that help improve yield and quality include.

Agricultural thermal insulation textiles; a) Example 1. Agricultural thermal insulation composite fabrics, horticultural windproof and thermal insulation cloths, reflective heat insulation textiles.

Agricultural protective textiles; b) Example 2. Insect netting, bird netting, weed netting (fabric), hail netting, windproof netting, shade netting (fabric), rainproof fabric.

Textiles for agricultural breeding/cultivation; c) Example 3. Seedling fabrics, livestock fence ropes, fibrous agricultural films, fruit collection nets (cloths), ground covering and ripening reflective cloths (films), fishing and aquaculture ropes and nets.

Textiles for agricultural irrigation; d) Example 4. Drainage pipe, irrigation cloth (pipe).

Other agricultural textiles. (e) Example 5. Soil remediation fabrics, sand-fixing fabrics (nets, grids), and storage fabrics.

5.1.2 Architectural textiles

Applied to permanent or temporary buildings, structures, and facilities, it provides reinforcement, repair, waterproofing, heat insulation, sound absorption and sound insulation, and visual protection.

Textiles that provide protection against sunlight, acid and alkali corrosion, shock absorption, and other functions related to building safety, environmental protection, energy conservation, and comfort, including.

Building-reinforced textiles; a) Example 1. Crack-resistant fabric, warp-knitted grid, repair and reinforcement fabric (mesh), concrete reinforcement fabric (fiber).

Building protective textiles; b) Example 2. Safety nets, dust suppression nets, fireproof roller shutters, shock-absorbing fabrics, and anti-condensation fabrics for steel structures.

Building insulation textiles; c) Example 3. Waterproof membrane base, sound-absorbing felt,