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

**GB/T 14578-2025**

Replacing GB/T 14578-2003

**Water-reeled tussah silk**

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### Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. This document replaces GB/T 14578-2003 "Thuja silkworm water reeling". Compared with GB/T 14578-2003, the main differences are structural adjustments and editorial changes. Aside from the modifications, the main technical changes are as follows:

- Added terms and definitions (see Chapter 3);
- Added "Specification Markings" (see Chapter 4);
- The "cut off" requirement has been changed (see 5.2, 3.2 in the 2003 version);
- The category of "minor defects" and its rating criteria have been removed (see sections 3.3 and 5.2.1.2.6 of the 2003 edition);
- The starting point for the annotation of "double-layered pattern, interlocking pattern, uneven twisting" has been changed (see 5.3, 3.3 in the 2003 edition);
- An "odor" assessment requirement has been added (see 5.4.1.2, 3.5.3 in the 2003 version);
- The assessment criteria for "fragile silk" have been revised (see 5.4.1.2, 3.5.3 in the 2003 version);
- The requirements for weighing "tare weight" have been changed (see 6.1.2.2,

### 1 Scope

GB/T 14578-2025 is the Chinese national standard on water-reeled tussah silk, in the field of textile and leather technology. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer

specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 31 October 2025 by the State Administration for Market Regulation; Standardization Administration of China, and takes effect on 1 November 2027. Classification: ICS 59.080.20, CCS W42. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document defines the terminology and definitions for tussah silkworm water reeling, specifies the specifications, requirements, inspection rules, packaging and marking, and describes the related... The corresponding testing method. This document applies to water-reeled tussah silk with a nominal fineness of 74 denier ( 82.2 dtex) and below.

## 2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 250 Textiles - Tests for color fastness - Assessment of color change - Gray scale

GB/T 6529 Standard Atmosphere for Conditioning and Testing of Textiles

GB/T 8170 Rules for rounding off numerical values and the representation and determination of limiting values

GB/T 9995 Determination of moisture content and moisture regain of textile materials by oven drying method

GB/T 26380-2022 Textiles - Silk Terminology

GB/T 32014-2015 Silk Properties and Test Terminology FZ/T 40008 Technical Requirements for Darkrooms for Silk Inspection (Blackboard)

## 3 Terms and Definitions

The terms and definitions defined in GB/T 26380-2022 and GB/T 32014-2015, as well as the following terms and definitions, apply to this document.

3.1 The filaments are made from high-quality tussah silkworm cocoons, which are treated with oxides and then reeled without dehydration using a water-reeling process. [Source: GB/T 26380-2022, 3.2.17]

3.2 hollow cocoon The tussah silkworm (pupa) cocoon is dry and broken, the cocoon layer is contaminated, the cocoon is light, and there is no rolling sound when the silkworm (pupa) is shaken.

3.3 Fiber density range The absolute value of the difference between the mean mass fineness and the nominal fineness. [Source: GB/T 32014-2015, 2.9]

4. Specifications The center value of the fineness of water-reeled tussah silk is the nominal fineness. The specification is indicated by two fineness values, one above and one below the center value, which are equal in degree to the center value.

Note. The upper and lower fineness values do not represent the upper and lower limits of fineness. Example 1.33/37den (36.7/41.1dtex) indicates tussah silk reeled with a nominal fineness of 35den (38.9dtex). Example 2.66/74den (73.3/82.2dtex) means tussah silk reeled with water and a nominal fineness of 70den (77.8dtex).