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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB 36889-2025

Replacing GB 36889-2018

Norm of energy consumption per unit productions of chemical fibers

化学纤维单位产品能源消耗限额

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Foreword

This document is given in accordance with GB/T 1.1-2020 "Guidelines for standardization work Part

1.Structure and drafting rules for standardization documents" Drafting of regulations. This document replaces GB 36889-2018 "Energy consumption limits per unit product of polyester". Compared with GB 36889-2018, except for the structure In addition to adjustments and editorial changes, the main technical changes are as follows:

a) The scope of application has been changed to include polyester for bottles, viscose fiber, nylon 6, spandex, vinylon, acrylic fiber, polypropylene fiber, ultra-high molecular weight polyethylene olefin fibers and bicomponent composite fibers (see Chapter 1, Chapter 1 of the.2018 edition);

b) Deleted the terms and definitions related to energy consumption indicators (see Chapter 3 of the.2018 edition);

c) The energy consumption limit per unit product process of polyester has been changed (see Chapter 4, Chapter 4 of the.2018 edition);

d) Added polyester, viscose, nylon 6, spandex, vinylon, acrylic, polypropylene, ultra-high molecular weight polyethylene fiber and bicomponent Comprehensive energy consumption limit level per unit product of composite fibers (see Chapter 4);

e) Added polyester, viscose, nylon 6, spandex, vinylon, acrylic, polypropylene, ultra-high molecular weight polyethylene fiber and bicomponent The comprehensive energy consumption limit and access value per unit product of composite fibers have been increased, and the comprehensive energy consumption limit and access value per unit product of nylon 6 chips have been increased. Entry value (see Chapter 5);

f) Added the statistical scope, output discount and calculation method of viscose fiber, nylon 6, spandex, vinylon, acrylic fiber and polypropylene fiber, and added bottle Statistical range and calculation method for polyester, ultra-high molecular weight polyethylene fibers and bicomponent composite fibers (see Chapter 6). Please note that some of the contents of

this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents. This document is proposed and coordinated by the National Standardization Administration. The previous versions of this document and the documents it replaces are as follows:

---First published in.2018 as GB 36889-2018;

---This is the first revision. Energy consumption limit per unit product of chemical fiber

1 Scope

GB 36889-2025 is the Chinese national standard on norm of energy consumption per unit productions of chemical fibers, in the field of energy and heat transfer engineering. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 30 May 2025 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 June 2026. Classification: ICS 27.010, CCS F01. 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 specifies the energy consumption per unit product of chemical fiber (hereinafter referred to as "energy consumption") limit level, technical requirements, statistical scope, output Describes the calculation method. This document applies to polyester, recycled polyester (physical method, physical and chemical method), bottle polyester, viscose fiber, nylon 6, spandex (dry spinning), vinylon (high-strength and high-modulus polyvinyl alcohol short fibers, water-soluble polyvinyl alcohol short fibers), acrylic fibers (DMAc wet two-step method), Production of polypropylene (fully drawn yarn, bulked filament, staple fiber), ultra-high molecular weight polyethylene fiber (wet spinning) and some bi-component composite fibers Enterprises calculate and evaluate energy consumption, as well as control energy consumption of new construction and renovation and expansion projects.

2 Normative references

The contents of the following documents constitute essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 2589 General rules for comprehensive energy consumption calculation

GB/T 4146.1 Textiles - Chemical fibres - Part

3 Inspection terms

GB/T 8960 Polyester drawn yarn

GB/T 12723 General rules for the compilation of energy consumption limits per unit product

GB/T 13758 Viscose filament yarn

GB/T 14460 Polyester low stretch yarn

GB/T 14463 Viscose staple fibers

GB/T 14464 Polyester staple fibers

GB/T 16603 Nylon drawn yarn

GB/T 16604 Polyester industrial filament

GB/T 30101 Polyvinyl alcohol water-soluble staple fibers FZ/T 52010 Regenerated polyester staple fiber FZ/T 52023 High strength and high modulus polyvinyl alcohol short fibers FZ/T 52043 Modal staple fibers FZ/T 54001 Bulked Polypropylene Filament (BCF) FZ/T 54003 Polyester pre-oriented yarn FZ/T 54007 Nylon 6 stretch yarn FZ/T 54008 Polypropylene drawn yarn FZ/T 54010 Spandex filament FZ/T 54024 Nylon 6 pre-oriented yarn FZ/T 54033 Nylon