

ICS 59.100.20

CCS Q 53



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

GB/T 47408-2026

Polyacrylonitrile-based oxidized fibre

聚丙烯腈基氧化纤维

Issued on: March 31, 2026

Implemented on: October 1, 2026

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

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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. 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 and is under the jurisdiction of the National Technical Committee on Carbon Fiber Standardization (SAC/TC572). This document was drafted by: China Petrochemical Corporation Shanghai Petrochemical Co., Ltd., Inner Mongolia Xinjinshan Carbon Fiber Co., Ltd., and Nanjing Glass. Fiber Research & Design Institute Co., Ltd., Guangzhou Sai'ao Carbon Fiber Technology Co., Ltd., Zhongfu Shenying Carbon Fiber Co., Ltd., China Science and Technology The college's Ningbo Institute of Materials Technology and Engineering, Shandong Kaitai Petrochemical Group Co., Ltd., and Zhongfu Shenying Carbon Fiber Xining Co., Ltd. Hebei Carbon Valley Carbon Fiber Co., Ltd., Zhejiang Wanli Carbon Fiber Intelligent Equipment Co., Ltd., Shenzhen Dingxinde New Material Science and Technology Innovation Co., Ltd., Changsan Innovation Center for Angle Carbon Fiber and Composite Materials Technology. The main drafters of this document are. Huang Xiangyu, Han Feng, Xin Meiyin, Ma Dan, Li Peng, Lin Gang, Zhu Yao, Chen Qiufei, Wang Lili, Wang Jiaqing, and Wang Dacheng. Wang Cunfang, Lian Feng, Wei Quandong, Wan Fengyun, Li Tianhai, Chen Chaozhong. Polyacrylonitrile-based oxidized fiber

1 Scope

GB/T 47408-2026 is the Chinese national standard covering oxidised PAN fibre - the stabilised intermediate between acrylic precursor and carbon fibre, and a flame-resistant material in its own right, used in fire blocking fabrics and friction materials. First edition, in force since 1 October 2026, and it belongs with GB/T 47771-2026 on the equipment that makes the precursor. It was issued on 31 March 2026 and takes effect on 1 October 2026, as a first edition. The document is under the responsibility of the Standardization Administration of China. This page is published from the official record of the 2026 edition;

the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the classification, specifications, and marking of polyacrylonitrile-based oxidized fibers, as well as technical requirements, inspection rules, packaging, marking, transportation, and storage. The experiment was recorded and the experimental methods were described. This document applies to the production and inspection of oxidized fibers prepared from polyacrylonitrile fibers through oxidative heat treatment.

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 191 Packaging and Storage Graphic Symbols

GB/T 4146.3 Textiles - Chemical Fibers - Part

3 Inspection Terminology

GB/T 6503 Test Method for Moisture Regain of Chemical Fibers

GB/T 6504 Test Method for Oil Content of Chemical Fibers

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

GB/T 14334-2006 Sampling Method for Short Fibers of Chemical Fibers

GB/T 14335-2008 Test Method for Linear Density of Short Chemical Fibers

GB/T 14337-2022 Test Method for Tensile Properties of Chemical Fibers (Short Fibers)

GB/T 14338 Test Method for the Crimping Properties of Short Chemical Fibers

GB/T 30019-2013 Determination of carbon fiber density

GB/T 40724 Terminology for Carbon Fibers and Their Composites FZ/T 50016 Test Method for Combustion Performance of Chemical Fibers - Oxygen Index Method

4 Classification, Specifications and Marking

4.1 Classification Polyacrylonitrile-based oxidized fibers are classified into two forms

according to their morphology. continuous fibers and short fibers.

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