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**TEXTILE INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

FZ/T 54130-2021

PAN-based carbon fiber large-tow precursor

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(English Translation)

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard is proposed and managed by China National Textile and Apparel Council.

The main drafting units of this standard. Jilin Carbon Valley Carbon Fiber Co., Ltd., Jiangsu Hengshen Co., Ltd., Weihai Development Fiber Co., Ltd.

Company, Zhongfu Shenying Carbon Fiber Co., Ltd., Lianyungang Fiber Inspection Center, Weihai Metrology Institute, China Chemical Fiber Industry Association, Shanghai Textile Industry Technical Supervision Institute, Jiangsu New Vision Advanced Functional Fiber Innovation Center Co., Ltd., Jilin Chemical Fiber Group Co., Ltd.

company.

1 Scope

This standard specifies the terms and definitions, product identification, technical requirements, test methods, inspection regulations of polyacrylonitrile-based carbon fiber large tow precursors Rules and requirements for marking, packaging, transportation and storage.

This standard applies to polyacrylonitrile-based carbon fiber large tow precursors with the number of monofilaments ranging from 24K to 50K. Polyacrylonitrile base above 50K Carbon fiber large tow strands can be used for reference.

Note: 1K is 1000 pieces.

2 Normative references

The following documents are essential for the application of this document. For dated references, only the dated version applies to this article pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 2828.1-2012 Counting Sampling Inspection Procedures Part 1: Lot-by-Lot Inspection Sampling Retrieved by Acceptance Quality Limit (AQL) plan GB/T 3291.1 Textile and Textile Material Properties and Test Terms Part 1: Fibers and Yarns GB/T 3291.3 Textile Material Properties and Test Terms Part 3: General GB/T 4146 (all parts) Spinning chemical fibers GB/T 6503 Test method for moisture regain of chemical fibers GB/T 6505-2017 Test method for thermal shrinkage of chemical fiber filaments (after treatment) GB/T 8170-2008 Numerical Rounding Rules and Representation and Judgment of Limit Values GB/T 14335-2008 Test method for linear density of chemical fiber staple fibers GB/T 14337-2008 Test method for tensile properties of chemical fiber staple fibers GB/T 14343-2008 Test method for linear density of chemical fiber filaments FZ/T 50032 Test method for residual solvent of polyacrylonitrile-based carbon fiber precursor FZ/T 50043 Test method for oil

content of polyacrylonitrile-based carbon fiber precursors

3 Terms and Definitions

GB/T 3291.1, GB/T 3291.3, GB/T 4146 (all parts) defined and the following terms and definitions apply to this document.

Fiber bundles made of acrylonitrile homopolymer or acrylonitrile-based copolymer with a number of filaments of 24K and above, before being used as carbon fibers drive body.

4.1 Product Specifications

Nominal Linear Density. The nominal linear density of the whole bundle of filaments mentioned in the sales documents (contracts, invoices, etc.), expressed in dtex.