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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 35156-2025

Replacing GB/T 35156-2017

Fiber reinforced polymer composites structural cables

结构用纤维增强复合材料拉索

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document replaces GB/T 35156-2017 "Fiber reinforced composite cables for structures". Compared with GB/T 35156-2017, In addition to structural adjustments and editorial changes, the main technical changes are as follows.

a) Added the term and definition of "fiber reinforced composite material harness" (see 3.7);

b) Added the type of carbon fiber composite cables in the cable body (see 6.3.2);

c) The static load elongation requirement for cables has been changed (see 6.5.2, 6.5.2 of the 2017 edition);

d) Added the watertightness requirements for cables (see 6.5.4);

e) The test method for glass transition temperature has been changed (see 7.3.4, 7.3.4 of the 2017 edition);

f) The requirements for packaging diameter have been changed (see 9.2, 9.2 of the 2017 edition).

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 by China Building Materials Federation.

This document is under the jurisdiction of the National Technical Committee for Standardization of Fiber Reinforced Plastics (SAC/TC39).

This document was drafted by: Tsinghua University, University of Science and Technology Beijing, Southeast University, China Construction Eighth Engineering Bureau Co., Ltd., MCC Construction Research Institute China General Research Institute Co., Ltd., 63983 Unit of the Chinese People's Liberation Army, Fasten Hongsheng Group Co., Ltd., Liuzhou Ovim Machinery Co., Ltd.

Company, Nanjing Noltai Composite Materials Equipment Manufacturing Co., Ltd., Chongqing Dali Cable Technology Co., Ltd., Jiangsu Hengshen Co., Ltd., China Shanghai Petrochemical Co., Ltd., Nanjing Fenghui Composite Materials Co., Ltd., Jiangsu Fasten Cable Co., Ltd., Yangtze River Delta Carbon Fiber Wei and Composite Materials Technology Innovation Center, Gongcheng Composites Technology (Changzhou) Co., Ltd., and Beijing Fiberglass Research and Design Institute Co., Ltd.

The main drafters of this document are: Feng Peng, Yue Qingrui, Dong Li, Liu Xiaogang, Yang Yongxin, Wu Zhishen, Wang Xin, Qi Ligang, Ai Pengcheng, Zhang Jiwen, Zhu Yuanlin, Shi Wei, Zhuo Jing, Cheng Zhenghui, Zhang Ning, Wang Zhiwei, Wang Bin, Wei Jian, Zhao Jun, Ma Minglei, and Zhou Jingyang.

This document was first published in 2017 and this is the first revision.

1 Scope

This document specifies the classification, code and marking, raw materials and production, requirements, test methods of fiber reinforced composite cables for structures.

Methods, inspection rules, marking, packaging, transportation and storage.

This document is applicable to fiber reinforced composite cables that bear tension in structures such as bridges and buildings, and fiber reinforced composite cables used in other structures.

Material cables are used for reference.

2 Normative references

GB/T 1446

GB/T 1447

GB/T 1462

GB/T 2576

GB/T 3961

GB/T 13657

GB/T 14370

GB/T 18369

GB/T 21490

GB/T 25045

GB/T 26743

GB/T 26752

GB/T 40396

3 Terms and Definitions

The terms and definitions defined in GB/T 3961 and JG/T 330 and the following apply to this document.

3.1

A component that bears tension in engineering structures and is composed of a fiber-reinforced composite cable body, supporting anchors and an outer protective layer.

3.2 cablebody

A linear load-bearing body in a cable composed of fiber-reinforced composite sheets, rods, bars or strands.