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CCS G77



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

GB/T 14591-2016

Replacing GB 14591-2006

Water treatment chemicals - Poly ferric sulfate

水处理剂 聚合硫酸铁

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Foreword

This standard is drafted in accordance with the rules given in GB/T 1.1-2009. This standard replaces GB 14591-2006 "Water treatment agent polymerization of ferric sulfate", compared with GB 14591-2006 main technical changes as follows:

- the nature of the standard from mandatory to recommend; - the classification of products, the class I and II products were modified to first-class goods and qualified products (see 4.2, 2006 version of 4.2);
- modified the solid iron content of solid iron sulfate products from " ≥ 19.0 " to " ≥ 19.5 " (see 4.2, 2006 version 4.2); - modified the salt base of qualified products (see 4.2, 4.2 of 2006); - modified the pH of the product (see 4.2, 4.2 of 2006); - modified insoluble indicators (see 4.2, 4.2 of 2006);
- increase the qualified products such as arsenic, lead, cadmium, mercury, chromium and other indicators, and modified first-class arsenic, lead, cadmium, mercury, chromium and other indicators (see 4.2, 2006 version 4.2); Increased atomic fluorescence spectrometry for arsenic (see 5.8.1), deletion of arsenic spot method (see 5.7.2 of 2006); The determination of lead and cadmium content was modified by flame atomic absorption spectrometry after extraction (see 5.8, 5.9, 2006, 5.8). - increased atomic fluorescence spectrometry (see 5.10.1), the spectrophotometric method was removed (see 5.10.1, 2006);
- modified the determination of chromium (see 5.11, 2006 version 5.11); - Added atomic absorption spectrometry to measure zinc and nickel (see 5.12, 5.13). This standard is proposed by the China Petroleum and Chemical Industry Association. This standard is under the jurisdiction of the National Chemical Standardization Technical Committee Water Treatment Substances Technical Committee (SAC/TC63/SC5). The drafting unit of this standard. Tongji University, Henan Ai Erfuke Chemical Co., Ltd., Jiaozuo City source wave Environmental Protection Technology Co., Ltd., Chongqing Lanjie Guangshun Water Purification Materials Co., Ltd., Zibo Tianshui New Material Co., Ltd., Gongyi Yongxing

Biochemical Material Co., Ltd., Changzhou City Treatment agent Co., Ltd., Henan Ruida purification materials Co., Ltd., Huizhou City Sri Lanka Environmental Chemical Co., Ltd., Henan Songshan water purification materials Limited company, Shenzhen Changlong Technology Co., Ltd., Shandong Mitutoyo Group Co., Ltd., Henan Ketai water purification materials Co., Ltd., Zhejiang Haixiang Water Purification Technology Co., Ltd., Shengli Oilfield New State Petroleum Technology Co., Ltd., Beijing Haiguang Instrument Co., Ltd., CNOOC Tianjin Chemical Industry Research Research Institute Limited. The main drafters of this standard. Li Fengting, Xu Zhiyuan, Shang Guoli, Zou Peng, Yang Aiguo, Cao Kezhen, Jiang Xiaochun, Zhang Guocai, Cao Wanyin, Yin Xiancai, Huang Ying. This standard replaced the previous version of the standard release.

--- GB 14591-1993, GB 14591-2006. Water treatment agent polymerization of ferric sulfate
WARNING - The strong acids and bases used in this standard are corrosive and should be avoided by inhalation or contact with the skin. Splash on the body should be immediately Rinse with plenty of water, and seek medical attention immediately. Polymeric ferric sulfate liquid products are corrosive and should be handled with care.

1 Scope

GB/T 14591-2016 is the Chinese national standard on water treatment chemicals - poly ferric sulfate, in the field of chemical 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 13 December 2016 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 July 2017. Classification: ICS 71.100.80, CCS G77. 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 standard specifies the requirements, test methods, inspection rules, marking, packaging, transportation and storage of calcium sulfate products for water treatment agents. Full requirement This standard applies to water treatment agent polymerization of ferric sulfate. The product is mainly used for drinking water, industrial water, sewage and sludge treatment. One of the first class can be used for drinking water treatment, the raw materials should be ferrous sulfate (I class products) and industrial sulfuric acid.

2 Normative reference documents

The following documents are indispensable for the application of this document. For dated references, only the dated edition applies to this article Pieces. For undated references, the latest edition (including all modifications) applies to this document.

GB 190 Dangerous Goods Packaging Mark

GB/T 191 packaging and storage icon Preparation of standard titration solution for

GB/T 601 chemical reagents

GB/T 602 Preparation of standard solutions for the determination of impurities in chemical reagents Preparation of preparations and preparations for use in the test methods for chemical reagents

GB/T 603 Chemical reagents - General methods for the determination of arsenic

GB/T 610-2008 General rules for sampling of chemical products GB/T

GB/T 6682 Analytical laboratory water specifications and test methods Representation and Judgment of Numerical Correction Rule and Limit Value of

GB/T 8170 General technical requirements for

GB/T 8946 plastic woven bags Health Drinking Water Chemical Treatment Agent Hygienic Safety Evaluation Code (Wei Fa Jian Fa [2001] No. 161)

4 Requirements

4.1 Appearance. liquid reddish brown liquid; solid yellow to yellow amorphous solid.

4.2 Determination of polyferric sulfate according to the corresponding test method should meet the requirements of Table 1.