

ICS 71.100.80

CCS G77



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

**GB/T 10531-2016**

Replacing GB 10531-2006

**Water treatment chemicals - Ferrous sulphate**

水处理剂 硫酸亚铁

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## 1 Scope

GB/T 10531-2016 is the Chinese national standard on water treatment chemicals - ferrous sulphate, 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 October 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 May 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 classification, requirements, test methods, inspection rules, marking, packaging, transportation and storage of ferrous sulphate water treatment agents. This standard applies to ferrous sulfate water treatment agent. The product is mainly used as the production of iron-based water treatment agent raw materials can also be used for industry Water treatment, which class I products refers to the production of titanium dioxide by-product of ferrous sulfate.

## 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. For undated references, the latest edition (including all modifications) applies to this document.

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 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

4 product classification

Ferrous Sulfate Water Treatment Agents are divided into two categories by their use.

--- Class I. iron-based water treatment agent for the production of raw materials; Class II. industrial water, waste water and sewage treatment.

5.1 Appearance. light green or yellowish green crystal.

5.2 ferrous sulfate according to the corresponding test method should be consistent with the requirements of Table 1.

## 6 Determination of arsenic content

7 Determination of lead and cadmium content Determination of mercury content

Determination of chromium content

## 14 Marking, packaging, transportation and storage

This standard is drafted in accordance with the rules given in GB/T 1.1-2009. This standard replaces GB 10531-2006 "water treatment agent ferrous sulfate", compared with GB 10531-2006 main technical changes are as follows:

--- standard attributes from mandatory to recommended;

--- Change the ferrous sulfate scale of category II products to " $\geq 87.0$ " (see 5.2,

4.2 of.2006); - increased cadmium, mercury, chromium and other indicators (see 5.2,.2006 version 4.2); - modify the arsenopyrite method to atomic fluorescence spectrometry (see 6.6,.2006 version 5.5); Determination of Lead and Cadmium by Flame Atomic Absorption

Spectrometry after Determination of Lead by Electrothermal Atomic Absorption Spectrometry (see 6, 7, 2006) Version 5.6). 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 standard drafting unit. Jiaozuo City, the source of environmental protection Technology Co., Ltd., Shenzhen Changlong Technology Co., Ltd., the source of water (Shanghai) Environmental Protection Branch Technology Co., Ltd., Jiashan Channel Water Purification Chemical Co., Ltd., Anshan Iron and Steel attached to the Water Treatment Co., Ltd., CNOOC Tianjin Chemical Research and Design Institute has Limited company, Nanjing South-South Fine Chemical Co., Ltd. The main drafters of this standard. to Baosheng, Dong Linhui, Wang Hongtao, Shen Liexiang, Zhao Junyan, Shao Hongqian, Yin Xiancai, Bai Ying, Wang Yan, Li Lin. This standard replaced the previous version of the standard release.

--- GB 10531-1989, GB 10531-2006. Water treatment agent ferrous 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. The isopropanol used in this standard is flammable and irritating. It should be carried out in a fume hood.