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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

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GB/T 9103-2013

Replacing GB/T 9103-1988

Industrial stearic acids

工业硬脂酸

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Foreword

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

This Standard replaces GB/T 9103-1988 "Industrial stearic acids". Compared with GB/T 9103-1988, main changes in this Standard are as follows:

- modified the product classification, stearic acid was modified from original type 200, type 400, type 800 to type 1840, type 1850, type 1865 and rubber level (see Clause 3 of this Edition, Clause 2 of Edition 1988);
- modified technical indicators of saponification value, acid value, iodine value, titer, moisture, color (see 4.2 of this Edition, 3.2 of Edition 1988);
- added octadecanoic acid content indicator (see 4.2 of this Edition);
- deleted inorganic acid indicator (3.2 of Edition 1988);
- modified inspection rules (see Clause 6 of this Edition, Clause 5 of Edition 1988);
- modified marks, packaging, transport, storage (see Clause 7 of this Edition, Clause 6 of Edition 1988).

This Standard was proposed by China Light Industry Federation.

This Standard shall be under the jurisdiction of National Technical Committee on Surfactants and Detergents of Standardization Administration of China (SAC/TC 272).

The drafting organizations of this Standard: China Daily Chemical Industry Research Institute, Boxing Huarun Grease Chemical Co., Ltd., Zouping Fuhai Group (limited) Company, Zhejiang Jiahua Energy Chemical Co., Ltd., Surfactant and Detergent Industry Productivity Promotion Center.

Main drafters of this Standard: Liu Jianxue, Li Xiaohui, Ye Jianquan, Xu Wenkai, Mao Jinsheng, Tong Nian, Qi Yuhuan, Cheng Ning.

Version of standard substituted by this Standard is:

- GB/T 9103-1988.

Industrial stearic acids

1 Scope

This Standard specifies product classification, technical requirements, test methods, inspection rules and marks, packaging, transport, storage and shelf life of industrial stearic acids.

This Standard is applicable to industrial stearic acids that are obtained by processing and refining animal and vegetable oils after hydrolysis (the main components are octadecanoic acid and palmitic acid). Industrial stearic acids are widely used in rubber, plastics, textile printing and dyeing, household chemicals and precision casting industries.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

GB/T 8170, *Rules of rounding off for numerical values & expression and judgement of limiting values*

GB/T 9104-2008, *Test methods for industrial stearic acids*

3 Product classification

Industrial stearic acids, according to the content of octadecanoic acid in the product, are classified into: type 1840, type 1850, type 1865 and rubber level.

4 Requirements

4.1 Appearance

The product, according to the forming method, appears block, flake, powder or granular.

4.2 Physical and chemical indicators

The physical and chemical indicators of industrial stearic acids shall comply

In accordance with the provisions of Clause 7 in GB/T 9104-2008.

5.6 Titer

In accordance with the provisions of Clause 8 in GB/T 9104-2008.

5.7 Moisture

In accordance with the provisions of Clause 9 in GB/T 9104-2008.

6 Inspection rules

6.1 Exit-factory inspection

The exit-factory inspection items are appearance, C_{18} content, saponification value, acid value, iodine value, color, titer, moisture specified in Clause 4.

6.2 Product batching and sampling rules

6.2.1 Batching

The products are delivered in batches and accepted by sampling. The products of the same specification, of same batch number delivered at one time are one delivery batch.

The products delivered by manufacturer shall be first inspected as accepted by manufacturer's quality inspection depart according to the provisions of this Standard. Then issue product quality inspection certificates before they are exited from factory. The product quality inspection certificate shall include manufacturer's name, product name, trademark, reference standard used, type, level, batch number, batch size, quality indicator, production date.

The receiver shall accept the products according to the product's quality inspection certificate. When necessary, perform sampling, acceptance or arbitration within one month according to the provisions of 6.2.2.

6.2.2 Sampling

According to the batch size, determine the sample size according to Table 2. Randomly extract unit sample from batches.

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