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

GB/T 38731-2020

**Surface active agents - Test methods of technical sodium
secondary alkylsulphates**

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Foreword

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

This standard uses the redrafting method to amend and adopt ISO 895.1977 "Analytical Method of Secondary Alkyl Sodium Sulfate in Surfactant Industry".

Compared with ISO 895.1977, the structure of this standard is adjusted as follows.

--- Chapter 1 corresponds to Chapter 1 and Chapter 2 of ISO 895.1977;

--- Chapter 2 corresponds to Chapter 3 of ISO 895.1977;

--- Added Chapter 3 "Terms and Definitions";

--- Deleted Chapter 4 and Chapter 5 of ISO 895.1977;

--- Chapter 4 corresponds to 6.1 of ISO 895.1977;

--- Chapter 5 corresponds to 6.2 of ISO 895.1977;

--- Chapter 6 corresponds to 6.3 of ISO 895.1977;

--- Chapter 7 corresponds to 6.4 of ISO 895.1977;

--- Chapter 8 corresponds to 6.5 of ISO 895.1977, and the test content is adjusted to Appendix A;

--- Chapter 9 corresponds to 6.6 of ISO 895.1977, and the test content is adjusted to Appendix B;

--- Chapter 10 corresponds to 6.7 of ISO 895.1977;

--- Chapter 11 corresponds to 6.8 of ISO 895.1977;

--- Chapter 12 corresponds to Chapter 7 of ISO 895.1977;

---Appendix C corresponds to the appendix of ISO 895.1977.

The technical differences between this standard and ISO 895.1977 and the reasons are as follows.

---Regarding normative reference documents, this standard has made adjustments with technical differences to adapt to my country's technical conditions and adjustments.

The situation is collectively reflected in Chapter 2 "Normative Reference Documents", and the specific adjustments are as follows.

* Added reference to GB/T 11275-2007 (see Chapter 5), GB/T 3050 (see Chapter 11), QB/T 2739-2005

(See A.2.5, B.2.3, B.2.5) and GB/T 6682 (see B.2);

* Replace ISO 4314 with GB/T 6365 which is equivalent to adopting international standards (see Chapter 6);

* Replace ISO 4315 (see Chapter 7) with GB/T 7378 modified to adopt international standards;

* Replace ISO 4316 with GB/T 6368 which is equivalent to the international standard (see Chapter 4);

* Replace ISO 6844 with GB/T 6366 which is modified to adopt international standards (see Chapter 10);

* The normative reference documents ISO 607, ISO 894 and ISO 4318 have been deleted.

---In order to facilitate the use of standards, Chapter 3 "Terms and Definitions" has been added.

---Because it was not used during the test, the sampling requirements in Chapter 4 of ISO 895.1977 were deleted.

---The content of Chapter 5 Principles of ISO 895.1977 has been deleted due to duplicate content.

--- In order to adapt to the use of our country, the determination of water content has been modified (see Chapter 5).

--- In order to adapt to the use of our country, the method of determination of sodium chloride content has been modified (see Chapter 11).

---In order to adapt to my country's usage habits and reagent specifications, the ethanol concentration has been modified (see A.2.2 and B.2.2).

--- In order to adapt to my country's usage habits and reagent specifications, the boiling range of petroleum ether has been modified (see A.2.3).

---According to our country's operating habits, the type of flask has been modified (see A.3.1).

---According to our country's operating habits, the fractionating column has been deleted (see A.3).

---In order to adapt to the actual situation of our country, the reference documents of general laboratory utensils have been deleted (see A.3).

--- In order to meet the test requirements, detailed sample dissolution, transfer and other operations (see A.4.2.1).

--- In order to adapt to our country's operating habits, the amount and frequency of washing solvents have been adjusted (see A.4.2.5).

---In order to adapt to the actual situation of our country, simplify the description of the process of driving the solvent and constant weight, and delete the drawing requirements (see A.4.2.6 and A.4.2.7).

---In order to adapt to the actual situation in our country, sodium hydroxide was added to the reagent (see B.2.4).

--- In order to adapt to the actual situation of our country, a flat-bottomed flask was added to the instrument (see B.3.1).

--- In order to adapt to the usage habits of our country, the note has been modified (see B.5.1).

This standard also made the following editorial changes.

---Modified the standard name;

---Integrate Chapter 1 of ISO 895.1977 with Chapter 2 of Chapter 1 of the cost standard;

---In the determination of petroleum ether extractables, the introduction is changed to note (see A.1);

--- Deleted the description of 6.6.4.2 steam extraction during the evaporation of filtrate in ISO 895.1977;

---Modified the statement of the whole part (see B.4.1);

--- Modified the description of the end point of the evaporated solvent (see B.4.2.5).

This standard was proposed by the China National Light Industry Council.

This standard is under the jurisdiction of the National Standardization Technical Committee for Surfactants and Detergents (SAC/TC272).

Drafting organizations of this standard. China Daily Chemical Research Institute Co., Ltd. [National Detergent Products Quality Supervision and Inspection Center (Taiyuan)], Guangzhou Blue

Moon Industry Co., Ltd., Shenzhen Bagemei Biotechnology Co., Ltd., Productivity Promotion Center for Surfactant and Detergent Industry.

1 Scope

This standard specifies the pH value, water content, free alkali or free acid, total alkalinity, petroleum ether

Test methods for the content of extracts, sodium alkyl sulfate, sodium sulfate, and sodium chloride.

This standard applies to liquid industrial secondary alkyl sodium sulfate, which does not contain any products unrelated to the preparation.

This standard does not apply to powder or paste products.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article

Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 3050 General method for determination of chloride content in inorganic chemical products Potentiometric titration (GB/T 3050-2000, neq

ISO 6227.1982)

GB/T 6365 Surfactant free alkalinity or free acidity determination titration method (GB/T 6365-2006, ISO 4314.

1977, IDT)

GB/T 6366 Surfactant inorganic sulfate content determination titration method (GB/T 6366-2012, ISO 6844.1983,

MOD)