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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 38729-2020

Surface active agents - Test methods of technical sodium primary alkylsulphates

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5 times, with 10mL ether each time.

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 894.1977 "Analytical Method for Primary Alkyl Sodium Sulfate in Surfactant Industry".

Compared with ISO 894.1977, the structure of this standard is adjusted as follows.

--- Chapter 1 corresponds to Chapter 1 and Chapter 2 of ISO 894.1977;

--- Chapter 2 corresponds to Chapter 3 of ISO 894.1977;

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

--- Deleted Chapter 4 and Chapter 5 of ISO 894.1977;

--- Chapter 4 corresponds to 6.1 of ISO 894.1977;

--- Chapter 5 corresponds to 6.2 of ISO 894.1977;

--- Chapter 6 corresponds to 6.3 of ISO 894.1977;

--- Chapter 7 corresponds to 6.4 of ISO 894.1977;

--- Chapter 8 corresponds to 6.5 of ISO 894.1977, and the test content is adjusted to

Appendix A;

--- Chapter 9 corresponds to 6.6 of ISO 894.1977, and the test content is adjusted to Appendix B;

--- Chapter 10 corresponds to 6.7 of ISO 894.1977;

--- Chapter 11 corresponds to 6.8 of ISO 894.1977;

--- Chapter 12 corresponds to Chapter 7 of ISO 894.1977;

---Appendix C corresponds to the appendix of ISO 894.1977.

The technical differences between this standard and ISO 894.1977 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 3050 (see Chapter 11), GB/T 6682 (see A.2 and B.2), GB/T 8447-2008 (see

A.4.2.3) and QB/T 2739-2005 (see A.2.6);

* 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 4317 (see Chapter 5) with GB/T 11275 modified to adopt international standards;

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

* Deleted ISO 607, ISO 2877 and ISO 4318;

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

---Because it was not used during the test, the sampling requirements in Chapter 4 of ISO 894.1977 were deleted;

---The content of Chapter 5 Principles of ISO 894.1977 has been deleted due to duplication

of content;

---In order to adapt to the use situation in my country, the determination of water content has been modified (see Chapter 5);

---In order to adapt to the use situation in our country, the method for measuring 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);

---According to our country's operating habits, the type of flask has been modified (see A.3.1 and B.3.3);

---In order to adapt to the actual situation of our country, acetone is added to the reagent (see A.2.7);

--- In order to adapt to the operating habits of our country, the titration endpoint is quantified (see A.4.2.2);

---In order to adapt to the actual situation in our country, the number of extractions has been increased to make the two phase separation more fully (see A.4.2.3);

---In order to adapt to the actual situation of our country, the operation method of extraction with stoppered measuring cylinder and siphon is added (see A.4.2.3);

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

---In order to make the operability stronger and facilitate the test, the temperature and time requirements of the operation process are clarified (see A.4.2.6);

---In order to adapt to the actual situation of our country, the requirements for drawing have been deleted (see A.4.2.7 and B.4.2.6);

--- In order to adapt to our country's usage habits, sodium sulfate is omitted, and the description of concentrated hydrochloric acid is modified (see B.2.4).

This standard also made the following editorial changes.

---Modified the standard name;

---Integrate Chapter 1 and Chapter 2 of ISO 894.1977 into Chapter 1;

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

--- Deleted the note in 6.8.4 of ISO 894.1977 to supplement the method;

---In order to adapt to my country's operating habits, a note has been added (see A.4.2.5);

--- Modified the expression of the change requirements of the two weighing results (see A.4.2.7 and B.4.2.6);

--- In order to adapt to the usage habits of our country, the note has been modified (see B.5.2).

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).

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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, ether extractables after acid hydrolysis (mixed industrial fatty alcohols), sodium sulfate and sodium chloride.

This standard is applicable to the testing of powder, slurry and liquid (aqueous) industrial primary alkyl sodium sulfate (without any product irrelevant to the preparation)

And evaluation.

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,

neqISO 6227.1982)

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

1977, IDT)