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

GB/T 38732-2020

**Surface active agents - Test methods of technical alkane
sulfonates**

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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 893.1989 "Analytical Method for Surfactant Industrial Alkyl Sulfonate".

Compared with ISO 893.1989, the structure of this standard is adjusted as follows.

- Chapter 3 of ISO 893.1989 is deleted;
- Added Chapter 3 "Terms and Definitions";
- Chapter 5 corresponds to 5.1 of ISO 893.1989;
- Chapter 6 corresponds to 5.2 of ISO 893.1989;
- Chapter 7 corresponds to 5.3 of ISO 893.1989;
- Chapter 8 corresponds to 5.4 of ISO 893.1989;

- Chapter 9 corresponds to 5.5 of ISO 893.1989;
- Chapter 10 corresponds to 5.6 of ISO 893.1989;
- Chapter 11 corresponds to 5.7 of ISO 893.1989;
- Chapter 12 corresponds to 5.8 of ISO 893.1989;
- Chapter 13 corresponds to 5.9 of ISO 893.1989;
- Chapter 14 corresponds to Chapter 6 of ISO 893.1989.

The technical differences between this standard and ISO 893.1989 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 13);
- * Replace ISO 4314.1977 (see Chapter 7) with GB/T 6365 which is equivalent to the international standard;
- * Replace ISO 6844.1983 (see Chapter 12) with GB/T 6366 modified to adopt international standards;
- * Replace ISO 4316.1977 (see Chapter 5) with GB/T 6368 which is equivalent to the international standard;
- * Replace ISO 4317.1977 (see Chapter 6) with GB/T 11275 modified to adopt international standards;
- * Replace ISO 6122.1978 (see Chapter 9) with GB/T 11987 which is equivalent to the international standard;
- * Replace ISO 6121.1988 (see Chapter 10) with GB/T 20199 modified to adopt international standards;
- * Replace ISO 607.1980 (see 4.1) with GB/T 13173 equivalent to the international standard;
- * Replace ISO 1104.1977 with GB/T 11989-2020, which is modified to adopt international standards (see Chapter 8, Chapter 11 and B.5.1);
- * The normative reference documents ISO 894.1977, ISO 4318.1989 and ISO 6845.1989 are deleted;

---Due to the duplication of content, the content of Chapter 3 of ISO 893.1989 is deleted;

---In order to adapt to the use of our country, the determination of water content has been modified (see Chapter 6);

---In order to adapt to the use situation in my country, the determination of alkane monosulfonate content has been modified (see Chapter 10);

--- In order to adapt to the use of our country, the determination of sodium chloride content has been modified (see Chapter 13).

This standard also made the following editorial changes.

---Modified the standard name;

---Edited the content of Chapter 1 of ISO 893.1989 and added a note.

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, petroleum ether extractables, total

Test methods for alkane sulfonate, alkane monosulfonate content, sulfite, sulfate, chloride content and other indicators.

This standard applies to powder, slurry and liquid industrial alkyl sulfonates (excluding any products that have nothing to do with the preparation).

Note. The industrial alkyl sulfonate in this standard refers to the base of monosulfonic acid or disulfonic acid prepared by sulfochlorination and sulfooxidation of linear alkyl groups without branched compounds.

Metal salt.

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)

GB/T 6368 Potentiometric method for determination of pH value of aqueous surfactant solution (GB/T 6368-2008, ISO 4316.1977,

IDT)

GB/T 11275 Determination of Water Content of Surfactants (GB/T 11275-2007, ISO 4317.1991, MOD)

GB/T 11987 Determination of total alkane sulfonate content in industrial alkane sulfonate of surfactants (GB/T 11987-1989,

eqvISO 6122.1978)

GB/T 13173 Test method for surfactant detergent (GB/T 13173-2008, ISO 607.1980, IDT)

GB/T 20199 Surface active agent industry alkane sulfonate alkane monosulfonate content determination (direct two-phase titration)

(GB/T 20199-2006, ISO 6121.1988, MOD)

GB/T 11989-2020 Industrial sodium alkylaryl sulfonate (excluding benzene derivatives) test method for surfactants (ISO 1104.

1977, MOD)

3 Terms and definitions

The following terms and definitions apply to this document.