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

GB/T 11983-2008

Replacing GB/T 11983-1989

**Surface active agents -- Determination of wetting power --
Immersion method**

表面活性剂 润湿力的测定 浸没法

(English Translation)

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Foreword

This revised standard adopts the International Standard ISO 8022:1990 "Determination of surfactant immersion wetting force." this standard is based on ISO 8022:1990 re-drafted. For the modified version of ISO standard content, the technical differences that exist with vertical They are involved in a straight line marking regulation on the right side of the blank page, and lists of the ISO 8022 standard and in Appendix A.1990 Technology Differences and their causes, for reference.

This standard replaces GB/T 11983-1989 "Determination of surfactant wetting power by immersion." this standard compared with GB/T 11983-1989 main changes are as follows.

--- The original control Peibu revised without desizing, scouring and bleaching of the original gray cloth, because after desizing and scouring of cotton has a good Absorbent can not be used for standard control fabric;

--- Updated the reference standard effective version control raw cotton cited. GB/T 2909-1994 "rubber industry cotton canvas." Appendix A of this standard is an informative annex.

The standard proposed by China National Light Industry Council.

This standard by the National Standardization Technical Committee surfactant and detergent.

This standard was drafted. National Cleaning Products Quality Supervision and Inspection Center (Taiyuan), China Daily Chemical Industry Institute.

1 Scope

This standard specifies the method of using the original cotton disc immersed surfactant solution Determination of wetting power.

This standard applies for the textile wetting agent in neutral, weakly acidic or alkaline bath

all the surfactants (regardless of their ionic character, such as what).

This standard does not apply to mercerized aid (strongly alkaline bath) or carbide additives (strong acid bath).

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 2909-1994 rubber industry cotton canvas

3 Terms and Definitions

The following terms and definitions apply to this standard.

When cotton is immersed in the surfactant solution, the solution the ability to replace cotton in the air occluded.

Determination of raw cotton wafer is immersed in a solution of the tested surface-active agent, wetting agent or a known standard concentration of the wetting time, the corresponding Concentration curve plotted wetting time, wetting force can be evaluated surfactants.

Principle 4

The known characteristics of cotton disc immersed in a folder within a folder, immersed in a known concentration of the surfactant solution. Because cotton concealed in empty Gas, cotton discs tend to float to the surface with the aid of a special immersion holder so that cotton discs remain completely submerged in the solution. Air substituted, After penetration of the solution into the cotton, discs began to sink. Cotton measuring wafer from the immersion began to sink to the interval determined wetting time.

Run both standards were measured (or two known wetting characteristics) surfactant and tested five different surfactant concentration of the solution Wet time. Draw Wetting Time - concentration curve, comparing the relative position of the curve, to determine the force measured wetting surfactant.

5 Reagents and materials

Unless otherwise indicated in the analysis using only recognized as analytical reagents and carbon dioxide-free distilled or deionized water or phase purity when the water.

5.1

two or more known wetting characteristics of the surface-active agent (e.g., di-n-hexyl succinate and di-n-heptyl sodium succinate sulfonate Sodium).

5.2

Control of the original cloth. using GB/T 2909-1994 specified in No. 202 canvas, the canvas should be without desizing, scouring and bleaching at the original rationale Peibu.

Yarn number x Unit (English count/share) = $28 \times 8 (21/8) \times 28 \times 8 (21/8)$;

Warp density. 142/10cm;