

ICS 81.040.01

CCS N 64



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

GB/T 44215-2024

**Glassware?Test method for inner surface hot end spraying
liquid**

玻璃仪器 内表面热端喷涂液沉积量试验方法

Issued on: July 24, 2024

Implemented on: February 1, 2025

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting is required.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document was proposed by China Light Industry Federation.

This document is under the jurisdiction of the National Technical Committee for Standardization of Glass Instruments (SAC/TC 178).

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Hot end spraying liquid on the inner surface of glass instruments Sedimentation test method

1 Scope

This document specifies the principles, reagents and materials, instruments and equipment, samples, test methods and procedures for the test of the deposition of the hot end spray liquid on the inner surface of glassware.

Steps, data processing, result presentation, test report, etc.

This document applies to the test method for the amount of tin deposited on the inner surface of glassware after hot end spraying.

2 Normative references

GB/T 622

GB/T 629

GB/T 6582-2021

GB/T 6682

GB/T 12806-2011

GB/T 15724

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Hot end spray hot end spray

At the hot end of the glass instrument production line, the spray liquid is atomized and sprayed onto the instrument surface. After high temperature treatment, the surface gloss of the glass instrument can be improved. A process of smoothness.

3.2 Hot end spraying liquid

A liquid with monobutyltin trichloride as the main ingredient, which is sprayed onto the surface of glassware and then treated at high temperature to make the surface smooth.

3.3 The amount of tin element

Inner surface hot end spraying liquid deposition amount
The hot end spray liquid on the inner surface of the glass instrument decomposes during the high temperature treatment process, and butyl and chlorine evaporate in the form of gas and finally deposit

4 Principle

Add a nominal volume of sodium hydroxide solution into the glassware and use an ultrasonic oscillator to perform ultrasonic extraction to dissolve the tin deposited on the inner surface.

The solution was dissolved in sodium hydroxide solution, and hydrochloric acid solution was added to adjust the pH and make the volume constant. The solution was analyzed by inductively coupled plasma emission spectrometer and other instruments.

The amount of tin element in the liquid is tested to obtain the deposition amount of the hot end spraying liquid on the inner surface.