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# NATIONAL STANDARD OF THE

# PEOPLE'S REPUBLIC OF CHINA

# GB/T 6609.13-2004

## Chemical analysis methods and determination of physical performance of alumina - Part 13: Determination of calcium oxide content - Flame atomic absorption spectrometric method

氧化铝化学分析方法和物理性能测定方法 火焰原子吸收光谱法测定氧化钙含量

**(English Translation)**

**Issued on: May 25, 2026** **Implemented on: December 1, 2026**

**Issued by: State Administration for Market Regulation, Standardization Administration of China**

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https://chinastandards.org/standards/gb-t-6609-13-2004

## 1 Foreword

GB/T 6609.13-2004 was issued by State Administration for Market Regulation, Standardization Administration of China on 25 May 2026 and has been in force since 1 December 2026.

It is one of 41 parts of the GB/T 6609 series.

## 2 About this standard

Sector: National Standard (Recommended)

Issued by: State Administration for Market Regulation, Standardization Administration of China

English translation: about 8 pages (approximate)

Chinese original: about 10,143 characters

## 3 Related standards

Other parts of this standard:

GB/T 6609.1-2018 - Chemical analysis methods and determination of physical performance of alumina-Part 1: Determination of trace elements content-Inductively coupled plasma atomic emission spectrometry method

GB/T 6609.2-2022 - Chemical analysis methods and determination of physical performance of alumina-Part 2: Determination of loss of mass at 300 °C and 1000 °C

GB/T 6609.3-2004 - Determination of silicon dioxide content -- Molybdenum blue photometric method

GB/T 6609.4-2004 - Determination of ferric oxide content -- Orthophenanthroline photometric method

GB/T 6609.5-2004 - Chemical analysis methods and determination of physical performance of alumina--Determination of sodium oxide content

GB/T 6609.5-2026 - Chemical analysis and physical property determination methods for alumina - Part 5: Determination of sodium oxide and potassium oxide contents

GB/T 6609.6-2018 - Chemical analysis methods and determination of physical performance of alumina-Part 6: Determination of potassium oxide content

GB/T 6609.7-2004 - Chemical analysis methods and determination of physical performance of alumina--Determination of titanium dioxide content--Diantiprylmehane photometric



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method

GB/T 6609.7-2026 - Chemical analysis and physical property determination methods for alumina - Part 7: Determination of titanium dioxide, chromium sesquioxide, cupric oxide, fluorine, chlorine, boron trioxide, phosphorus pentoxide and sulfate - Spectrophotometry

GB/T 6609.8-2004 - Chemical analysis methods and determination of physical performance of alumina--Determination of chromium sesquioxide content--Diphenyl carbazide photometric method

GB/T 6609.9-2004 - Chemical analysis methods and determination of physical performance of alumina--Determination of cupric oxide content--2,9-Dimethyl-1,10 phenanthroline photometric method

GB/T 6609.10-2004 - Chemical analysis methods and determination of physical performance of alumina--Determination of vanadic oxide content--N-benzoyl-N-phenylhydroxylamine extraction photometric method

GB/T 6609.11-2004 - Part 11: Determination of manganese oxide and magnesium oxide contents - Flame atomic absorption spectrometric method

GB/T 6609.11-2026 - Chemical analysis and physical property determination methods for alumina - Part 11: Determination of manganese oxide and magnesium oxide - Flame atomic absorption spectrometry

GB/T 6609.12-2018 - Chemical analysis methods and determination of physical performance of alumina-Part 12: Determination of zinc oxide content-Flame atomic absorption spectrometry method

GB/T 6609.14-2004 - Chemical analysis methods and determination of physical performance of alumina--Determination of fluorine content--Lanthanum-alizarincomplexone spectrophotometric method

GB/T 6609.15-2004 - Chemical analysis methods and determination of physical performance of alumina--Determination of chlorine content--Ferric thiocyanate photometric method

GB/T 6609.16-2004 - Determination of boron trioxide content -- Curcumin spectrophotometric method

GB/T 6609.17-2004 - Determination of phosphorus pentoxide content -- Molybdenum blue spectrophotometric method

GB/T 6609.18-2004 - Chemical analysis methods and determination of physical performanceof alumina--Determination of sulfate content--N,N-dimethyl-P-phenylenediamine spectrophotometric method

GB/T 6609.19-2018 - Chemical analysis methods and determination of physical



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performance of alumina-Part 19: Determination of lithium oxide content-Flame atomic absorption spectrometry method

GB/T 6609.20-2004 - Chemical analysis methods and determination of physical performance of alumina--Determination of magnesia content--Flame atomic absorption spectrophotometric method

GB/T 6609.21-2004 - Chemical analysis methods and determination of physical performance of alumina--Determination of gallium trioxide content--Butyrhodamine B spectrophotometric method

GB/T 6609.22-2004 - Sampling

GB/T 6609.22-2026 - Chemical analysis and physical property determination methods for alumina - Part 22: Sampling and preparation of test samples

GB/T 6609.23-2004 - Preparation and storage of test samples

GB/T 6609.24-2004 - Part 24: Measurement of the angle of repose and the angle of flow

GB/T 6609.24-2026 - Chemical analysis and physical property determination methods for alumina - Part 24: Measurement of the angle of repose and the angle of flow

GB/T 6609.25-2023 - Part 25: Method for the determination of tapped and untapped density

GB/T 6609.26-2004 - Determination of absolute density -- Pycnometer method

GB/T 6609.27-2023 - Part 27: Particle size analysis - Sieves method

GB/T 6609.29-2004 - Determination of an absorption index

GB/T 6609.30-2022 - Chemical analysis methods and determination of physical performance of alumina-Part 30: Determination of trace elements-Wavelength dispersive X-ray fluorescence spectrometric method

GB/T 6609.31-2009 - Part 31: Determination of angle of flow

GB/T 6609.32-2009 - Part 32: Determination of ?-alumina content by X-ray diffraction

GB/T 6609.33-2009 - Part 33: Determination of attrition index

GB/T 6609.34-2009 - Part 34: Method of calculating alumina content

GB/T 6609.35-2023 - Part 35: Determination of specific surface area - Nitrogen adsorption method

GB/T 6609.36-2009 - Part 36: Determination of flow time

GB/T 6609.37-2009 - Alumina Chemical analysis methods and determination of physical performance -- Part 37: Determination of particle size less than 20?m particle content

Other editions:



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GB/T 6609.13-2026 (later edition)

## 4 Classification and status

International classification (ICS): 77.120.01

Chinese Standard Classification (CCS): H 30

Prefix GB/T: recommended standard.



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