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ICS 13.220.01
CCS C80

NATIONAL STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

GB/T 31593.5-2015

Fire safety engineering - Part 5: Requirements governing algebraic equations for fire plumes

消防安全工程 第5部分：火羽流的计算要求

(English Translation)

Issued on: March 31, 2026 **Implemented on: October 1, 2026**

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

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https://chinastandards.org/standards/gb-t-31593-5-2015

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1 Foreword

GB/T 31593.5-2015 was issued by State Administration for Market Regulation, China National Standardization Administration on 31 March 2026 and has been in force since 1 October 2026.

It is one of 12 parts of the GB/T 31593 series.

The GB/T prefix marks a recommended standard. It is not law in itself: it becomes binding when a contract names it, when a regulation or a mandatory standard refers to it, or when a producer declares conformity with it.

2 Scope Preview

GB/T 31593.5-2015 falls under ICS 13.220.01, in the field of environment and health protection, safety.

This catalogue holds 2,330 other GB/T standards in that field.

In this catalogue, GB/T standards carry edition years from 1963 to 2026.

3 Where this standard sits

2 other standards in this catalogue cite it, among them GB/T 31592-2015, GB/T 31593.1-2015.

It is one part of the GB/T 31593 series, of which this catalogue holds 12 parts.

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4 About this standard

Sector: National Standard (Recommended)

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

English translation: about 12 pages (approximate)

Chinese original: about 18,152 characters

5 Related standards

Other parts of this standard:

GB/T 31593.1-2015 - Fire safety engineering -- Part 1: Assessment, verification and validation of calculation methods

GB/T 31593.2-2015 - Fire safety engineering-Part 2: Data and information needed for FSE

GB/T 31593.3-2015 - Fire safety engineering -- Part 3: Guidance on fire risk assessment

GB/T 31593.4-2015 - Fire safety engineering -- Part 4: Selection of design fire scenarios and design fires

GB/T 31593.6-2015 - 6: Requirements governing algebraic equations for smoke layers

GB/T 31593.6-2026 - 6: Requirements governing algebraic equations for smoke layers

GB/T 31593.7-2015 - 7: Requirements governing algebraic equations for ceiling jet flows

GB/T 31593.7-2026 - 7: Requirements governing algebraic equations for ceiling jet flows

GB/T 31593.8-2015 - 8: Requirements governing algebraic formulae for vent flow

GB/T 31593.8-2026 - 8: Requirements governing algebraic equations for vent flow

GB/T 31593.9-2015 - Fire safety engineering -- Part 9: Guidance on evaluation of behaviour and movement of people

Other editions:

GB/T 31593.5-2026 (later edition)

Standards on related subjects:

GB/T 20284-2026 - Single burning item test for building materials and products

GB/T 40237-2021 - Test method for ignitability of foamed plastic-Welding spark method

GB/T 38301-2019 - Determination of limiting oxygen concentration (LOC) of flammable gases and vapours

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6 Classification and status

International classification (ICS): 13.220.01

Chinese Standard Classification (CCS): C 80

Prefix GB/T: recommended standard.

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