

ICS 13.230
CCS C 67



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

GB 15577-2018

Replacing GB 15577-2007

Safety regulations for dust explosion prevention and protection

粉尘防爆安全规程

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Foreword

This document was issued on 19 November 2018 by the State Administration for Market Regulation and the Standardization Administration of the PRC, and took effect on 1 June 2019.

It replaces GB 15577-2007, which is superseded.

Classification: ICS 13.230, CCS C 67.

It is a GB standard without the /T suffix: compliance is mandatory in China.

1 Scope

GB 15577 is the code that governs dust explosion hazards in Chinese industry, and it is short for the weight it carries: the aluminium dust explosion at Kunshan in 2014 killed 146 people and this is the standard the enforcement that followed is built on. It covers the layout and construction of buildings where combustible dust is present, the prevention of dust cloud and dust layer fires, the control of explosions by venting, suppression and isolation, the design of the dust collection system, the housekeeping that keeps layers from accumulating, the precautions during maintenance, and personal protection. Issued on 19 November 2018, in force since 1 June 2019, replacing GB 15577-2007. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the edition it replaces are

taken from there. The clause text, the tables and the numeric limits are not reproduced on this page - they are in the document itself, which is delivered in full in English translation.

About this edition

GB 15577-2018 is the current edition. It was issued on 19 November 2018 and has been in force since 1 June 2019, replacing GB 15577-2007.

GB 15577-2007 has been superseded: a specification that still cites it is citing a withdrawn edition.

The interval between issue and effect is the transition period. It exists so that producers, laboratories and buyers can requalify products, revise procedures and use up documentation before the new text becomes the one that applies. The date on this page is the official one from the record of the Standardization Administration.

Classification and status

GB 15577-2018 is classified under ICS 13.230. ICS is the International Classification for Standards, the same scheme used by ISO and by the national bodies of most countries, which is what allows a Chinese standard to be placed beside its foreign counterparts on subject rather than on number.

Its Chinese Standard Classification code is CCS C 67. CCS is the domestic scheme, a letter for the sector and two digits for the subject within it, and it is the code by which the standard is filed and searched in China.

The GB prefix marks a mandatory national standard. Compliance is required by law within China: it applies to what is made, sold or imported there, and an inspection body will judge a product against it whether or not a contract names it.

How a Chinese national standard is set out

Chinese national standards are drafted to the rules of GB/T 1.1, which fixes the order in which a standard is set out. The document opens with a foreword recording the issuing bodies, the relationship to any previous edition and the technical committee responsible for it. Clause 1 is the scope. Clause 2 lists the normative references - the other standards that have to be applied together with this one, and without which its requirements cannot be met. Clause 3 gives the terms and definitions. The technical clauses follow: the requirements themselves, the test or measurement methods by which conformity is established, the inspection rules that say how a lot is sampled and judged, and, for a product standard, the provisions on marking, packaging, transport and storage. Annexes, normative or informative, come last.

GB 15577-2018 runs to 21 pages in the English translation. What is delivered is the

complete document in that order: every clause, every table, every figure and every annex of the Chinese original, with the same numbering, so that a reference to a clause number in a contract or a test report points to the same place in both languages.

About this English translation

The English edition of GB 15577-2018 is a full translation of the official Chinese text, not a summary, an abstract or a machine rendering left unchecked. Clause and subclause numbers, table and figure numbers and annex letters are those of the original, because they are what a specification, a purchase order or a test report cites.

Technical terms are translated against the vocabulary standards of the same field, so that a term used in GB 15577-2018 reads the same way as in the other Chinese standards it is used beside. Where a term has an established English form in an ISO or IEC document on the same subject, that form is used; where China's term has no foreign counterpart, it is translated literally and the Chinese is kept alongside it rather than replaced by an approximation.

Quantities, units and symbols are carried over unchanged. Chinese standards use SI, so a value in the translation is the value in the original document, not a conversion, and a limit read from the English text is the limit that will be applied by a Chinese inspection body reading the Chinese one.

This page is compiled from the official publication record: the standard number and both titles, the issuing bodies, the dates of issue and effect, the edition it replaces, the ICS and CCS classification. The requirements, limits, tables and test conditions are in the document itself.