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

GB 46996-2025

Superfine powder extinguishing agent

超细干粉灭火剂

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed and is under the jurisdiction of the State Fire and Rescue Administration. Ultrafine dry powder fire extinguishing agent

1 Scope

GB 46996-2025 is the Chinese national standard on superfine powder extinguishing agent, in the field of environment and health protection, safety. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 31 December 2025 by the State Administration for Market Regulation; Standardization Administration of China, and takes effect on 1 July 2027. Classification: ICS 13.220.10, CCS C 83. 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 issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This document defines the terminology and definitions of ultrafine dry powder fire extinguishing agents, and specifies their classification, types, requirements, and inspection rules. The corresponding test methods are described, including marking, packaging,

instructions for use, transportation, and storage. This document applies to the research, development, production, and testing of BC ultrafine dry powder fire extinguishing agent and ABC ultrafine dry powder fire extinguishing agent products.

2 Normative references

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 150 (All Parts) Pressure Vessels

GB/T 535 Fertilizer-grade ammonium sulfate

GB/T 622 Chemical Reagents - Hydrochloric Acid

GB/T 3864 Industrial Nitrogen

GB/T 4509-2010 Determination of Penetration of Asphalt

GB/T 6682 Specifications and test methods for water used in analytical laboratories

GB 14922 Laboratory Animal Microbiological and Parasitological Grading and Monitoring

GB 14923 Genetic quality control of laboratory animals SH0004 Solvent Oil for Rubber Industry XF602-2013 Dry Powder Fire Extinguishing Device

3 Terms and Definitions

The following terms and definitions apply to this document. 3.1 90% particle size (partial size D90) The particle size has a mass fraction of 90%.

3.2 Solid powder fire extinguishing agent with a particle size of 90% less than or equal to 15 μ m.

3.3 An ultra-fine dry powder extinguishing agent capable of extinguishing Class A, Class B, and Class C fires.

3.4 An ultra-fine dry powder extinguishing agent capable of extinguishing Class B and Class C fires.