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

GB 27897-2025

Replacing GB 27897-2011

Class A foam extinguishing agent

A类泡沫灭火剂

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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. This document replaces GB 27897-2011 "Class A Foam Extinguishing Agents". Compared with GB 27897-2011, the main differences are structural adjustments and editorial changes. Aside from the changes, the main technical changes are as follows:

a) The "MJABP" product model and its corresponding performance requirements and test methods have been removed from the "Product Category" (see page 4 of the 2011 edition). (Chapters 5.2.3,

5.2.4 and 6.11.7)

b) Increased the upper limit requirements for "mixture ratio characteristic value for extinguishing Class A fires" and "mixture ratio characteristic value for thermal insulation" (see...). 5.1);

c) The requirement and test method for "comparative fluidity" have been removed (see Tables 1 and

6.4 in the 2011 edition);

d) Requirements and test methods for "viscosity" have been added (see Tables 1 and 6.4);

e) The requirements for "pH" have been changed (see Table 1, 2011 edition);

f) The requirement for "nonconformity type" has been removed (see Tables 1, 2, and 3 in the 2011 edition);

g) The test method for "freezing point" has been changed (see 6.2, 2011 edition of 6.2).

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. This document was first published in 2011, and this is its first revision. Class A foam extinguishing agent

1 Scope

GB 27897-2025 is the Chinese national standard on class A foam 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 October 2025 by the State Administration for Market Regulation; Standardization Administration of China, and takes effect on 1 November 2026. Classification: ICS 13.220.10, CCS C84. 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 specifies the product models, technical requirements, test methods, inspection rules, marking, packaging, and transportation of Class A foam fire extinguishing agents. This document applies to the research, development, production, and testing of Class A foam fire extinguishing agents.

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 2909-2025 Natural Cotton Canvas

GB 4351-2023 Hand-held fire extinguishers

GB/T 6003.1-2022 Technical requirements and inspection of test sieves - Part

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Foam extinguishing agent used for extinguishing Class A fires and for heat insulation protection.

3.2 eigenvalue The physical and chemical performance parameters of foam liquid and foam solution provided by the manufacturer.

3.3 foam concentrate A concentrated liquid that is mixed with water at a suitable concentration to form a foam solution.

3.4 foam solution A solution prepared by mixing foaming liquid and water at a specified concentration.

3.5 25% precipitation time The time required for 25% of the liquid by mass to be extracted from the foam.