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

GB 8109-2023

Replacing GB 8109-2005

Wheeled fire extinguishers

推车式灭火器

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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 8109-2005 "Trolley-type Fire Extinguisher": Compared with GB 8109-2005, except for structural adjustments and editorial changes In addition, the main technical changes are as follows:

- a) The scope of application of the standard has been changed (see Chapter 1, Chapter 1 of the:2005 edition);
- b) Changed the model compilation method (see 4:2, 5:4 of the:2005 edition);
- c) The operating temperature range has been changed (see 5:1, 6:1 of the:2005 edition);
- d) The filling amount has been changed (see 5:2:1, 5:3:3 of the:2005 version);
- e) Delete the immersion method requirements and test methods (6:5:3 and 7:4:3 of the:2005 edition);
- f) The requirements and test methods for external corrosion resistance have been changed (see 5:6:1 and 7:5:1, 6:7:1 and 7:6:1 of the:2005 edition);
- g) The performance requirements and test methods for extinguishing Class A fires have been changed (see 5:7:1 and 7:6:1, 6:9:1 and 7:2 of the:2005 edition);

- h) The performance requirements and test methods for extinguishing Class B fires have been changed (see 5:7:2 and 7:6:2, 6:9:2 and 7:3 of the:2005 edition);
- i) Added performance requirements and test methods for extinguishing Class D fires (see 5:7:4 and 7:6:3);
- j) Added performance requirements and test methods for extinguishing Class F fires (see 5:7:5 and 7:6:3);
- k) Added requirements for fire extinguisher manufacturing units to keep product qualification certificates and quality inspection certificates (see 6:1:1:1);
- l) Added manufacturing qualification requirements for fire extinguisher bottle manufacturing units (see 6:1:1:2);
- m) Added requirements for trolley-type carbon dioxide fire extinguisher valves (see 6:2:5);

1 Scope

GB 8109-2023 is the Chinese national standard on wheeled fire extinguishers, 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 28 December 2023 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 January 2025. Classification: ICS 13.220.20, 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 stipulates the classification and models of trolley-type fire extinguishers, the performance requirements and test methods, colors and markings of trolley-type fire extinguishers and components: logo, instructions, inspection rules, packaging, transportation and storage: This document is applicable to trolley-type fire extinguishers with a total mass greater than 20kg, but not greater than 450kg, and their Design, manufacture and inspection of components:

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, the dated quotations For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document:

GB/T 192 Basic thread form of ordinary threads

GB/T 193 Ordinary thread diameter and pitch series

GB/T 196 Basic dimensions of ordinary threads

GB/T 197 Ordinary thread tolerances

GB/T 1804 General tolerances Tolerances for linear and angular dimensions without tolerances noted

GB/T 2516 Limit deviation of ordinary threads GB/T 2828:

1 Enumeration sampling inspection procedures Part 1: Batch-by-batch inspection sampling plan retrieved by acceptance quality limit (AQL)

GB/T 3181 paint film color standard

GB 4066 dry powder fire extinguishing agent

GB 4351 Portable fire extinguisher

GB 4396 carbon dioxide fire extinguishing agent

GB/T 4423 Copper and copper alloy drawn rods

GB/T 4968 Fire Classification GB/T 5099:

3 Steel seamless gas cylinders Part 3: Normalized cylinders

GB/T 5100 Steel welded gas cylinder

GB/T 5231 Processed copper and copper alloy grades and chemical composition

GB/T 5907:5-2015 Fire protection vocabulary Part 5: Fire protection products

GB/T 11640 Aluminum alloy seamless gas cylinder GB 15090 fire hose reel

GB/T 15382 General technical requirements for gas cylinder valves

GB 17835 water-based fire extinguishing agent

GB 25971 Hexafluoropropane (HFC236fa) fire extinguishing agent

HG/T 2579 O-shaped rubber sealing ring materials for general hydraulic systems