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

GB 43068-2023

Safety technical requirements for coal mine-used car catcher

煤矿用跑车防护装置安全技术要求

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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 be subject to patents. The publisher of this document assumes no responsibility for identifying patents. This document is proposed and managed by the State Mine Safety Supervision Bureau. Safety technical requirements for protective devices for sports cars used in coal mines

1 Scope

GB 43068-2023 is the Chinese national standard on safety technical requirements for coal mine-used car catcher, in the field of mining and minerals. 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 8 September 2023 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 April 2024. Classification: ICS 73.100.40, CCS D18. 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 safety technical requirements, test methods, and inspection rules for protective devices for sports cars used in coal mines. This document applies to the design, manufacture, installation, use and inspection of protective devices for sports cars used in coal mines.

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 3836.1 Explosive atmosphere Part

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 sports car protective device carcatcher A device or facility installed in an inclined shaft that can stop a running interruption rope or decoupled vehicle.

3.2 buffer buffer A mechanism that acts as a buffer on the protective device of a sports car that is installed in an inclined shaft and is used to absorb energy when running a sports car.

3.3 car barrier carstoppingdevice The mechanism on the sports car protection device installed in the inclined shaft lane to intercept the broken rope or decoupled vehicle during the process of going up and down the mountain.

3.4 The actuator on the sports car protective device installed in the inclined shaft can open or close the barrier.

3.5 buffercomponent Elements that move relative to static components in the buffer.

4 Equipment protected by intrinsically safe type "i"

GB/T 5590 Explosion-proof low-voltage electromagnetic starter for mining

GB/T 9969 General Principles of Instructions for Use of Industrial Products GB/T 13306 Signage