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

GB/T 28409-2012

Replacing GB/T 28409-2012

**Selection, use and maintenance of foot protective equipment
(English Translation)**

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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 supersedes GB/T 28409-2012 "Guidelines for the Selection, Use and Maintenance of Foot Protective Footwear (Boots) for Personal Protective Equipment" and is consistent with...

Compared with GB/T 28409-2012, apart from structural adjustments and editorial changes, the main technical changes are as follows.

---Added terms and definitions (see Chapter 3);

---The classification of foot protection equipment has been changed (see Chapter 4, Chapter 3 in the 2012 edition);

---The general principles for the selection and use of foot protection shoes (boots), the selection principles based on human performance characteristics, and the selection guidelines have been removed.

Selection process (see sections 4.1, 4.3~4.5 of the 2012 edition);

---Added general requirements for the selection of foot protection equipment (see 5.1);

---The use of foot protection equipment has been added (see Chapter 6);

---The maintenance of foot protection shoes (boots) has been removed (see 5.1 in the 2012

edition);

---General requirements for the maintenance of foot protection equipment have been added (see 7.1);

---The electrical performance inspection requirements have been changed (see 7.2, 5.3 in the 2012 version);

---The criteria for discarding foot protection equipment have been changed (see 7.3, 5.4 in the 2012 edition).

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 Ministry of Emergency Management of the People's Republic of China.

The release history of this document and the document it replaces is as follows.

---First published in 2012 as GB/T 28409-2012;

---This is the first revision.

Selection, use and maintenance of foot protection equipment

1 Scope

This document outlines the types of foot protection equipment and specifies the selection, use, and maintenance of such equipment.

This document applies to foot protection equipment designed to prevent physical and chemical injuries.

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 12903 Terminology for Personal Protective Equipment GB.20098 General Technical Specification for Foot Protection GB 20265 Footwear for chemical protection GB 21148-2020 Foot Protection Safety Footwear

3 Terms and Definitions

The terms and definitions defined in GB/T 12903, GB 20265, and GB 21148-2020 apply to this document.

4.1.1 Classification

The classification of foot protection footwear is shown in Table 1.

Table 1 Classification of Foot Protection Footwear

Code Name Classification Class I footwear refers to shoes made of leather and/or other materials, excluding shoes made entirely of rubber or polymer materials.

Class II shoes are shoes made entirely of rubber (i.e., fully vulcanized) or entirely of polymeric materials (i.e., fully molded).

A shoe with a mixed lower half made of Class II shoe materials and processes, and an upper half made of Class I shoe materials.

4.1.2 Style

The design of foot protection footwear is shown in Figure 1.

Index number explanation.

A---Low-top shoes;

B---High-waisted boots;

C---Half-calf boots;

D---High boots;

E---Long boots;

1 --- An extension that fits the wearer.

Note: Style E is a high boot (type D) with a thin, extended, waterproof or sandproof material on the upper, which can be cut to fit the wearer.

Figure 1. Styles of foot protection footwear.

4.2 Other Foot Protection Equipment

Other foot protection equipment is classified as protective socks, protective shoe covers, etc., based on its protective performance, product form, or workplace.

5.1 General Requirements

5.1.1

Foot protection equipment shall comply with GB.20098 and the requirements of relevant product standards.

5.1.2

Whether the risk factors in the workplace are singular or a combination of multiple factors is an important basis for selecting foot protection equipment. For workplaces with multiple risk factors...

In workplaces with multiple risk factors, the foot protection equipment selected should protect against multiple risk factors simultaneously.

Note: Appendix A provides examples of foot protection equipment selection.

5.2 Selection based on protection performance

5.2.1

For workplaces with a risk of toe injuries, foot protection equipment with toe protection features should be selected. If such work...

If the location is magnetic or poses a risk of electric shock, the selected foot protection equipment should use non-metallic protective caps.