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

GB 39800.3-2020

**Specifications for the provision of personal protective
equipment - Part 3: Metallurgy and non-ferrous metals**

个体防护装备配备规范 第3部分：冶金、有色

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Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 General requirements	1
5 Identification and assessment of hazardous factors	1
15 Reference	35

Foreword

GB 39800 "Personal Protective Equipment Provisioning Specification" is divided into the following parts:

---Part 1: General Provisions;

---Part 2: Petroleum, chemical industry, natural gas;

---Part 3: Metallurgy, non-ferrous metals;

---Part 4: Non-coal mines; This part is Part 3 of GB 39800: This section was drafted in accordance with the rules given in GB/T 1:1-2009: This part is proposed and managed by the Ministry of Emergency Management of the People's Republic of China: Personal protective equipment equipment specification Part 3: Metallurgy, non-ferrous metals

1 Scope

Part 3 of China's mandatory series on the provision of personal protective equipment, covering metallurgy and non-ferrous metals - the integrated steelworks, the smelters and the refineries, where the defining hazard is molten metal and radiant heat and where the protective clothing has to survive a splash that would kill through ordinary workwear in seconds. This part specifies the overall requirements for the provision of personal protective equipment by employers in the metallurgical and non-ferrous industries, the identification and assessment of the hazard factors, and the requirements for the equipment. It is applied together with the general requirements of Part 1. The hazards are taken area by area, because a works of this kind is several different industries under one fence: the coke ovens and the sinter plant with their dust and their coal tar volatiles; the blast furnace and the casthouse with molten iron, radiant heat and gas; the steelmaking shop with the converter or the arc furnace, the ladle work and the splash; the continuous casting and the rolling mills with heat, scale and noise; the non-ferrous smelters with their particular metal fumes -

lead, zinc, copper, nickel, cadmium - which are the exposures that show up in a blood test rather than in an accident report; the electrolysis halls with their magnetic fields and their electrolyte; and the maintenance and refractory work that goes on inside vessels that have just cooled. Against those the document sets the equipment: the aluminised and heat resistant clothing, the face and eye protection against radiant heat and splash, the respiratory protection selected against the specific fume, the hearing protection, the foot protection that must keep molten metal out as well as weight off, and the rest. Issued on 24 December 2020 and in force since 1 January 2022.

This part of GB 39800 stipulates the overall personal protective equipment (i.e: labor protection equipment) of various employers in the metallurgical and non-ferrous industries: Requirements, identification and assessment of hazardous factors, and personal protective equipment: This section applies to the equipment and management of personal protective equipment for all employers and their employees in the metallurgical and non-ferrous industries: This part does not apply to the deployment and management of personal protective equipment for firefighting by employers in mining, mineral processing, metallurgy, and non-ferrous industries:

2 Normative references

The following documents are indispensable for the application of this document: For dated reference documents, only the dated version applies to this article Pieces: For undated references, the latest version (including all amendments) applies to this document:

GB/T 18664 Selection, use and maintenance of respiratory protective equipment

GB 39800:1-2020 Personal Protective Equipment Equipment Specification Part 1: General

3 Terms and definitions

The terms and definitions defined in GB 39800:1-2020 apply to this document:

4 General requirements

The principle of personal protective equipment equipment, equipment management and equipment process shall be implemented in accordance with GB 39800:1-2020:

5 Identification and assessment of hazardous factors

Employers should combine the characteristics of safe production in the metallurgical and non-ferrous industries, and perform their production in accordance with the requirements in 4:2 of GB 39800:1-2020: The hazard factors that may be involved in the production process are identified and hazard assessment: The employer can refer to the job categories listed in Table 1, or refer to the attachment Record the types of work listed in A to identify the hazard

factors, and conduct a hazard assessment of the identified hazards as a selection of applicable individuals Basis for protective equipment:

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