

ICS 13.340.40

CCS c73



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

GB 38452-2019

**Hand protection - Protective gloves against ionizing radiation
and radioactive contamination**

手部防护 电离辐射及放射性污染物防护手套

Issued on: December 31, 2019

Implemented on: July 1, 2020

**Issued by: State Administration for Market Regulation;
Standardization Administration of China**

Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and definitions	1
4 Requirement	2
5 Test method	5
6 Identification	9
12 References	15

Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. This standard is proposed and managed by the Ministry of Emergency Management of the People's Republic of China. This standard was drafted. Shanghai Institute of Work Safety Science, Zhejiang Dongya Gloves Co., Ltd., Shanghai Tianjian Dikun Protection Technology Co., Ltd. Limited company. The main drafters of this standard. Tang Yiming, Yu Qingxiu, Tong Fang, Tong Suifang, Shang Jinglin, Yu Jie. Hand protection against ionizing radiation and radioactive pollutants protective gloves

1 Scope

GB 38452-2019 is the Chinese national standard on hand protection - protective gloves against ionizing radiation and radioactive contamination, 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 December 2019 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 July 2020. Classification: ICS 13.340.40, CCS c73. 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 standard specifies the requirements, test methods, identification and product information of protective gloves for ionizing radiation and radioactive pollutants. This standard applies to gloves that protect the wearer's hands from ionizing radiation and radioactive pollutants in the work area. Gloves for permanently sealed boxes, and intermediate sleeves between gloves and permanently sealed boxes. This standard does

not apply to medical radiation protective gloves.

2 Normative references

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

GB/T 7762 Vulcanized rubber or thermoplastic rubber resistance to ozone cracking static tensile test

GB/T 12624-2009 General technical conditions and test methods for hand protection

GB 24541-2009 hand protection mechanical hazard protective gloves

GB 28881-2012 hand protection chemicals and microbe protection gloves EJ/T

1175.1-2004 Sealed chamber room parts Part 1. Glove receiving tray, bag sealing tray, glove hole cover, bag hole cover, sealing ring And interchangeable parts EJ/T 1175.2-2004 Sealed chamber room parts. Part 2. Gloves, welded bags, sword-type robot sheaths and master-slave robot sheaths

YY0292.1-1997 Medical diagnostic X-ray radiation protective equipment-Part 1. Determination of attenuation properties of materials

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Radioactive contamination Radioactive material present in obsolete or hazardous materials or places.

3.2 Ionizing radiation Radiation consisting of directly or indirectly ionized particles or a mixture of the two, usually does not include ultraviolet radiation. [GB/T 10149-1988, definition 2.1.1]

3.3 Bremsstrahlung X-ray radiation generated when a charged particle passes through the electric field of an atomic nucleus or other charged particles, decelerating or accelerating. [GB/T 10149-1988, definition 2.1.2]

3.4 Water vapour permeability Under the specified temperature and relative humidity environment, the quality of water vapor permeating a certain material every 24 hours per square meter.

Note. The unit is grams per square meter of day $[g/(m^2 \cdot d)]$.