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# NATIONAL STANDARD OF THE

# PEOPLE'S REPUBLIC OF CHINA

# GB/T 12162.4-2026

Replacing GB/T 12162.4-2010

**X and gamma reference radiation for calibrating dosemeters and doserate meters and for determining their response as a function of photon energy-Part 4:Calibration of area and personal dosemeters in low energy X reference radiation fields**

用于校准剂量仪和剂量率仪及确定其能量响应的X和γ参考辐射 第4部分：低能X射线参考辐射场中场所和个人剂量仪的校准

**(English Translation)**

**Issued on: October 30, 2026** **Implemented on: February 1, 2027**

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

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## 1 Foreword

GB/T 12162.4-2026 was issued by State Administration for Market Regulation; Standardization Administration of China on 30 October 2026 and takes effect on 1 February 2027.

It replaces the earlier edition GB/T 12162.4-2010.

It is one of 8 parts of the GB/T 12162 series.

## 2 Scope Preview

GB/T 12162.4-2026 carries no ICS number and no Chinese Standard Classification code.

This catalogue holds 76,457 other GB/T standards.

Of the 47,415 GB/T standards that do carry an ICS number, 3,437 (7%) fall under ICS 77, in the field of metallurgy.

## 3 About this standard

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

## 4 Related standards

Other parts of this standard:

GB/T 12162-1990 - X and gamma reference radiation for calibrating dosemeters and doserate meters and for determining their response as a function of photon energy - Part 1: Radiation characteristics and production methods

GB/T 12162.1-2000 - X and gamma reference radiation for calibrating dose-meters and



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doserate meters and for determining their response as a function of photon energy. Part 1: Radiation characteristics and production methods

GB/T 12162.1-2025 - X and gamma reference radiation for calibrating dosemeters and doserate meters and for determining their response as a function of photon energy - Part 1: Radiation characteristics and production methods

GB/T 12162.2-2004 - X and gamma reference radiation for calibrating dosimeter and dose-rate meters and for determining their response as a function of photon energy - Part 2: Dosimetry for radiation protection over the energy ranges 8 keV to1.3MeV and 4MeV to 9MeV

GB/T 12162.2-2025 - X and gamma reference radiation for calibrating dosemeters and doserate meters and for determining their response as a function of photon energy - Part 2: Dosimetry for radiation protection over the energy ranges from 8 keV to 1.3 MeV and 4 MeV to 9 MeV

GB/T 12162.3-2004 - X and gamma reference radiation for calibrating dosimeter and dose-rate meters and for determining their response as a function of photon energy - Part 3: Calibration of area and personal dosimeter and the measurement of their response as a function

GB/T 12162.3-2025 - X and gamma reference radiation for calibrating dosemeters and doserate meters and for determining their response as s function of photon energy - Part 3: Calibration of area and personal dosemeters and the measurement of their response as a function of energy and angle of incidence

Other editions:

GB/T 12162.4-2010 (earlier edition)

## 5 Classification and status

Prefix GB/T: recommended standard.



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