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NATIONAL STANDARD OF THE

PEOPLE'S REPUBLIC OF CHINA

GB/T 5080.4-2026

Replacing GB/T 5080.4-1985

Equipment reliability testing-Part 4:Statistical procedures for exponential distribution-Point estimates, confidence intervals, prediction intervals and tolerance intervals

设备可靠性试验 第4部分：指数分布情况下的点估计、置信区间、预测区间和容许区间统计方法

(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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https://chinastandards.org/standards/gb-t-5080-4-2026

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1 Foreword

GB/T 5080.4-2026 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 5080.4-1985.

It is one of 10 parts of the GB/T 5080 series.

2 Scope Preview

GB/T 5080.4-2026 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 5080.1-1986 - Equipment reliability testing--General requirements

GB/T 5080.1-2012 - Reliability testing -- Part 1: Test conditions and statistical test principles

GB/T 5080.2-1986 - Equipment reliability testing--Guidance for the design of test cycles

GB/T 5080.2-2012 - Reliability testing -- Part 2: Design of test cycles

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GB/T 5080.5-1985 - Equipment reliability testing. Compliance test plans for success ratio

GB/T 5080.5-2026 - Reliability testing-Part 5: Compliance test plans for success ratio

GB/T 5080.6-1996 - Equipment reliability testing. Tests for the validity of a constant failure rate assumption

GB/T 5080.6-2026 - 6: Tests for the validity and estimation of the constant failure rate and constant failure intensity

GB/T 5080.7-1986 - Equipment reliability testing. Compliance test plans for failure rate and mean time between failures assuming constant failure rate

Other editions:

GB/T 5080.4-1985 (earlier edition)

5 Classification and status

Prefix GB/T: recommended standard.

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