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**Calibration Specification for Electromagnetic Balances
(English Translation)**

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Introduction

This specification is based on JJF 1071-2010 "National Measurement and Calibration Specification Writing Rules", JJF 1001-2011 "General Metrology Terms and Definitions" and JJF 1059.1-2012 "Assessment and Expression of Measurement Uncertainty" are the basic

series of specifications formulate:

The measurement characteristics, calibration items and calibration methods of this specification mainly refer to OIMLR76:2006 (E) "Non-automatic weighing Relevant contents of "Electronic Balance" and JJF 1326-2011 "Calibration Specifications for Mass Comparators":

This specification is published for the first time:

Calibration Specifications for Electromagnetic Balances

1 Scope

This specification applies to the calibration of electromagnetic balances:

2 References

This specification references the following documents:

JJG98 mechanical balance JJG99 Weights JJG1036 electronic balance JJF 1001 General Metrology Terms and Definitions JJF 1229 Terms and Definitions of Mass Density Measurement JJF 1326 Mass comparator calibration specification for dated references, only the dated version applies to this specification; for undated references document, its latest version (including all amendments) applies to this specification:

3 Terminology and units of measurement

3.1 Terminology

The following terms and definitions defined by JJF 1229 and JJF 1001 apply to this specification:

A balance that uses the principle of lever balance and electromagnetic force balance to measure the mass of an object:

Note: Including double-disk electromagnetic balance and single-disk electromagnetic balance:

Under a certain test load, the electronic system can reach the range of continuous weighing without the help of mechanical balancing device:

3.1.3 Actual division value actual scale interval the difference between two adjacent indications expressed in units of mass on an electromagnetic balance:

Note: The actual division value should be expressed in the form of 1×10^k , 2×10^k or 5×10^k , and k is a positive integer, a negative integer or zero:

3.2 Units of measurement Mass unit:

---kg, kg;

---mg, mg;

--- grams, g;