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**INDUSTRY STANDARD OF THE
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JJF 1229-2021

**Mass and Density Metrological Terms and Their Definitions
(English Translation)**

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Introduction

This specification refers to documents such as metrological technical regulations, national standards, international recommendations and international standards.

JJF 1229-2009 "Mass Density Measurement Terms and Definitions" has been revised.

The terms and definitions of quality measurement terms in this specification are based on the R76 "Non-the entries and terms provided in the International Recommendations of

Automatic Weighing Apparatus and R111 "Weights" are mainly based on references to other relevant international for the measurement terms and explanations in the recommendations and relevant domestic regulations, a total of 163 entries are included in the quality part of this specification.

Density measurement terms and definitions refer to the relevant regulations and specifications for density measurement terms and solutions.

There are a total of 80 entries in the density part of this specification.

Compared with JJF 1229-2009, except for editorial revisions, the main technical changes of this specification are as follows.

- Added the introduction section;
- Modified the referenced document;
- Deleted incorrect entries and definitions;
- Added the definition of terms for mass density measuring instruments;
- Revised the content of the terms and entries with unclear definitions;
- Corrected the Chinese and English index parts.

The previous releases of this specification are as follows.

---JJF 1229-2009.

Mass Density Measurement Terms and Definitions 1.Terms and definitions of quality measurement terms

1 Scope

This specification is used for formulating and revising quality measurement technical regulations, and is used in other aspects of quality measurement and related fields.

Domains can also be used by reference.

2 Reference documents this specification references the following documents.

JJG46 Torque Balance JJG98 Mechanical Balance JJG99 Weight JJG156 shelf balance
JJG171 Liquid Relative Density Balance JJG658 Drying method moisture analyzer
JJG1036 Electronic balance JJG1130 Pallet Torque Balance JJF 1181 Weighing Instrument
Measurement Terms and Definitions JJF 1326 Mass Comparator Calibration Specification
OIMLR111 E1, E2, F1, F2, M1, M1-2, M2, M2-3 and M3 class weights (Weightsof
classesE1,E2,F1,F2,M1,M1-2,M2,M2-3andM3) for dated references, only the dated version
applies to this specification; for undated references the latest version (including all
amendments) applies to this specification.

3 General terms

3.1 Weighing

A measurement of the mass of an object (load).

Note: According to the state of the object to be weighed, it can be divided into static weighing and dynamic weighing.

3.1.1 Dynamic weighing weighing-in-motion; WIM Weighing when there is relative movement between the load to be weighed and the load bearing of the scale. Dynamic weighing is always continuous Weigh.

3.1.2 Static weighing