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**CERTIFICATION AND ACCREDITATION INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

RB/T 146-2018

**Guidance on the proficiency testing of mechanical property for
metalwork of construction
(English Translation)**

Issued on: June 4, 2018

Implemented on: December 1, 2018

Issued by: National Certification and Accreditation Administration

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard was proposed and managed by the National Certification and Accreditation Administration Committee.

Drafting organizations of this standard. China National Accreditation Center for Conformity Assessment, Highway Research Institute of the Ministry of Transport, China Academy of Building Research.

Introduction

Metal products (such as steel bars, steel strands, anchors, etc.) are widely used in construction, bridges, highways, water transportation and other construction engineering fields.

The quantity directly affects the quality and safety of construction projects, and the technical capabilities of inspection agencies have also attracted more and more attention from industry authorities and the society. can as a kind of conformity assessment activity, force verification has gradually become a technical force for testing institutions such as industry authorities, accreditation agencies, and users of test results.

An important means for evaluating technical ability.

GB/T 27043-2012 specifies the capabilities required by proficiency testing providers and the general requirements for establishing and operating proficiency testing plans.

Organization and management of proficiency testing in all inspection and testing fields. This standard is based on GB/T 27043, combined with metals used in construction projects the characteristics and requirements of the field of product mechanical performance testing provide guidance for the development of proficiency testing activities, which will help standardize capabilities in this field the organization and implementation of the verification plan.

This standard does not involve the content required for the management of proficiency testing providers. For related content, see GB/T 27043-2012.

Mechanical properties of metal products for construction engineering Implementation Guidelines for Testing Proficiency Testing

1 Scope

This standard specifies the organization and planning of the proficiency testing plan for the mechanical properties of metal products used in construction projects, and the verification of proficiency testing items.

Determination, selection of testing methods, selection of statistical methods, determination of specified values and their uncertainties, calculation of capability statistics, capability evaluation, capability testing Certificate report, as well as guidance on communication with participants, confidentiality, etc.

This standard is applicable to the inspection of the mechanical properties of metal products such as steel bars, steel strands, anchors (including working anchor plates and clips) used in construction projects.

The organization, implementation and management of the certification plan.

2 Normative references

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

GB/T 230.1 Rockwell Hardness Test of Metallic Materials Part 1: Test Method GB/T 27025 General requirements for the competence of testing and calibration laboratories GB/T 27043-2012 General requirements for conformity assessment proficiency verification GB/T 28043-2011 Statistical methods for proficiency testing using inter-laboratory comparisons

3 Terms and definitions

The following terms and definitions defined in GB/T 27043-2012 apply to this document. For ease of use, the following is repeated Certain terms and definitions in GB/T 27043-2012.

Participant

Laboratories, organizations or individuals that accept proficiency testing items and submit the results for evaluation by the proficiency testing provider.

Note: In some cases, the participant can be an inspection agency.

[GB/T 27043-2012, definition 3.6] 3.2 Assigned value A value assigned to a specific property of a proficiency test item.

Note: In some qualitative or semi-quantitative plans, the characteristics of proficiency testing items are not expressed in terms of value.

[GB/T 27043-2012, definition 3.1] 3.3 Repeatability condition the same measurement procedure, the same operator, the same measurement system, the same operating conditions and the same location, and the same or similar A set of measurement conditions similar to the repeated measurement of the object under test.

[JJF1001-2011, measurement result 5.14]