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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 1482-2022

Replacing GB/T 1482-2010

**Metallic powders - Determination of flow rate - Calibrated funnel
methods(Hall flowmeter)**

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1. Structure and Drafting Rules for Standardization Documents" drafting.

This document replaces GB/T 1482-2010 "Standard Funnel Method for Determination of Fluidity of Metal Powders (Hall Velocimeter)", and

Compared with GB/T 1482-2010, except for structural adjustment and editorial changes, the main technical changes are as follows.

- a) Increased the requirements for the roughness of the standard funnel (see Figure 1);
- b) Change the funnel hole size "D=2.5 0.05 0 " to "D=2.5 0.4 0 " (see Figure 1, Figure 1 of the.2010 edition);
- c) Change "Chinese corundum" to "standard corundum" (see 5.5, 3.5 of the.2010 edition);
- d) Change "50g" to "50g $\pm$ 0.1g" (see 6.1, 4.1 of the.2010 edition);
- e) Changed the precision requirements (see Chapter 10, Chapter 8 of the.2010 edition);
- f) Increased the units expressed in calculation results (see Chapter 11).

This document is equivalent to ISO 4490.2018 "Determination of fluidity of metal powders by standard funnel method (Hall flow meter)".

This document adds two chapters "Normative References" and "Terms and Definitions".

The following minimal editorial changes have been made to this document.

--- In order to coordinate with existing standards, change the name of the standard to "Metal Powder Fluidity Determination Standard Funnel Method (Hall Velocimeter)".

Please note that some contents of this document may refer to patents. The issuing agency

of this document assumes no responsibility for identifying patents.

1 Scope

This document describes a method for determining the flowability of metal powders, including cemented carbide powders, using the standard funnel method (Hall flow meter).

This document is applicable to the determination of the fluidity of metal powders that can freely flow through specified apertures.

2 Normative references

This document has no normative references.

3 Terms and Definitions

This document does not have terms and definitions that need to be defined.

4 principles

Measure the time required for 50 g of metal powder to flow through the outlet of a standard funnel of standard size.

5 instruments

5.1 Standard funnel. See Figure 1 for dimensions. Shall be made of non-magnetic, corrosion-resistant metallic material with sufficient wall thickness and hardness to prevent deformation

shape and excessive wear.