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

GB/T 40389-2021

**Sintered metal materials, excluding hardmetals - Measurement
of surface roughness**

Issued on: August 20, 2021

Implemented on: March 1, 2022

**Issued by: State Administration for Market Regulation, China National
Standardization Administration**

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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 of Standardization Documents"

Drafting.

The translation method used in this document is equivalent to the ISO 23519.2010 "Measurement of Surface Roughness of Sintered Metal Materials (Excluding Cemented Carbide)".

Certainly".

The Chinese documents that have consistent correspondence with the normatively cited international documents in this document are as follows.

---GB/T 3505-2009 Product Geometric Technical Specification (GPS) Surface Structure Profile Method Terms, Definitions and Surface Structure Parameters

Number (ISO 4287.1997, IDT)

---GB/T 18778.1-2002 Product Geometrical Quantity Technical Specification (GPS) Surface structure contour method has compound processing characteristics

Characteristic surface Part 1. Filtering and general measurement conditions (ISO 13565-1.1996, IDT)

---GB/T 18778.2-2003 Product Geometrical Technical Specification (GPS) Surface structure contour method has compound processing characteristics

Characterized surface Part 2. Use linearized support ratio curve to characterize height characteristics (ISO 13565-2.1996, IDT)

---GB/T 18778.3-2006 Product Geometric Technical Specification (GPS) Surface structure contour method has compound processing characteristics

Surface Part 3. Use probability support ratio curve to characterize height characteristics

(ISO 13565-3:1998, IDT)

1 Scope

This document specifies the measurement method for the surface roughness of sintered metal materials and establishes the principle of reasonable use of measurement parameters.

2 Normative references

The contents of the following documents constitute the indispensable clauses of this document through normative references in the text. Among them, dated quotations

Only the version corresponding to that date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to

This document.

ISO 4287 Product Geometric Technical Specification (GPS) Surface Structure. Profile Method Terms, Definitions and Surface Structure Parameters

(GeometricalProductSpecification(GPS)-Surface texture. Profile method-Terms, definitions and surface texture parameters)

ISO 13565-1 Product Geometric Technical Specification (GPS) Surface structure. Surface with composite processing features by profile method Part 1

Points. filtering and general measurement conditions

(GeometricalProductSpecifications(GPS)-Surface texture. Profile method;

Surface having stratified functional properties-Part

1. Filtering and general measurement conditions)

ISO 13565-2 Product Geometric Technical Specification (GPS) Surface structure. Surface with composite processing features by profile method Part 2

Points. Use the linearized support rate curve to characterize the height characteristics

(GeometricalProductSpecifications(GPS)-Surface texture.

Profile method; Surface having stratified functional properties-Part

2. Height characterization using

the linear material ratio curve)

ISO 13565-3 Product Geometric Technical Specification (GPS) Surface structure. Surface with composite processing features by profile method Part 3

Points. Use the probability support rate curve to characterize the height characteristics

(GeometricalProductSpecifications(GPS)-Surface texture. Pro-

file method; Surfaces having stratified functional properties-Part
3. Height characterization using the
material probability curve)

3 Terms and definitions

The terms and definitions defined by ISO 4287 apply to this document.

4 Symbols and units

The following symbols and units apply to this document.