

INTERNATIONAL
STANDARD

ISO
13565-2

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**Geometrical Product Specifications
(GPS) — Surface texture: Profile method;
Surfaces having stratified functional
properties —**

Part 2:

Height characterization using the linear
material ratio curve

*Spécification géométrique des produits (GPS) — État de surface: Méthode
du profil; surfaces ayant des propriétés fonctionnelles différentes suivant
les niveaux —*

*Partie 2: Caractérisation des hauteurs par la courbe de taux de longueur
portante*



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 13565-2 was prepared jointly by Technical Committees ISO/TC 57, *Metrology and properties of surfaces*, Subcommittee SC 1, *Geometrical parameters — Instruments and procedures for measurement of surface roughness and waviness*, ISO/TC 3, *Limits and fits* and ISO/TC 10, *Technical drawings, product definition and related documentation*, Subcommittee SC 5, *Dimensioning and tolerancing*.

ISO 13565 consists of the following parts, under the general title *Geometrical product specifications (GPS) — Surface texture: Profile method; Surfaces having stratified functional properties*:

- *Part 1: Filtering and general measurement conditions*
- *Part 2: Height characterization using the linear material ratio curve*
- *Part 3: Height characterization using the material probability curve*

Annexes A and B of this part of ISO 13565 are for information only.

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Introduction

This part of ISO 13565 is a Geometrical Product Specification (GPS) standard and is to be regarded as a *General GPS standard* (see ISO/TR 14638:1995). It influences chain link 2 of the chain of standards for roughness profile.

For more detailed information of the relation of this part of ISO 13565 to other standards and the GPS matrix model, see annex A.

This part of ISO 13565 defines a set of parameters, based on the linear material ratio curve, to be used for the evaluation of the valley suppressed roughness profile defined in ISO 13565-1. It is based on a three-layer surface model, evaluating the peaks, the core and the valleys separately.