

Draft Indian Standard
GEOMETRICAL PRODUCT SPECIFICATIONS (GPS) – INDICATION OF
SURFACE TEXTURE IN TECHNICAL PRODUCT DOCUMENTATION
(First Revision)
ICS 01.100.20; 17.040.20

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NATIONAL FOREWORD

This Indian Standard (First Revision) which is identical with ISO 1302: 2002 'Geometrical Product Specifications (GPS) – Indication of surface texture in technical product documentation' issued by the International Organization for Standardization (ISO) will be adopted by the Bureau of Indian Standards on the recommendation of the Drawings Sectional Committee and approval of the Production and General Engineering Division Council.

This standard was originally issued in 1983 with title 'Method of indicating surface texture on technical drawings' based on ISO 1302: 1978 'Technical Drawings – Method of indicating surface texture on drawings'. This first revision has been harmonized with ISO 1302 : 2002 by adoption to make pace with the latest developments taken place at international level.

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain terminology and conventions are, however, not identical to those used in Indian Standards: attention is particularly drawn to the following:

- a) Wherever the words 'International Standard' appear, referring to this standard, they should be read as 'Indian Standard'.
- b) Comma (,) has been used as a decimal marker while in Indian Standards the current practice is to use a point (.) as the decimal marker.

In this adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards, which are to be substituted in their place, are listed below along with their degree of equivalence for the editions indicated:

International Standards	Corresponding Indian Standards	Degree of Equivalence
ISO 129-1: 2004 Technical drawings – Indication of dimensions and tolerances – Part 1: General principles	Document PGD 24 (1126) Technical drawings – Indication of dimensions and tolerances – Part 1: General principles	Identical
ISO 1101: 2004 Geometrical Product Specifications (GPS) – Geometrical tolerancing – Tolerances of form, orientation, location and run-out	Document PGD 24 (1191) Geometrical Product Specifications (GPS) – Geometrical tolerancing – Tolerances of form, orientation, location and run-out	Identical
ISO 3098-2: 2000 Technical product documentation – Lettering – Part 2: Latin alphabet, numerals and marks	IS 9609(Part 1):2006 Technical product documentation –Lettering – Part 1 Latin alphabet, numeral and marks (<i>second revision</i>)	Identical
ISO 3274: 1996 Geometrical Product Specifications (GPS) – Surface texture: Profile method – Nominal characteristics of contact (stylus) instruments	IS 15261:2002 Geometrical product specifications (GPS) – Surface texture – Profile method – Nominal characteristics of contact (stylus) instruments	Identical
ISO 4287:1997 Geometrical Product Specifications (GPS) – Surface texture: Profile method – Terms, definitions and surface texture parameters	IS 15262:2002 Geometrical product specification (GPS) – Surface texture: Profile method – Terms, definitions and surface texture	Identical
ISO 4288:1996 Geometrical Product Specifications (GPS) – Surface texture: Profile method – Rules and procedures for the assessment of surface texture	IS 15263:2002 Geometrical product specification (GPS) – Surface texture: Profile method – Rules and procedures for the assessment of surface texture	Identical
ISO 8785: 1998 Geometrical Product Specification (GPS) – Surface imperfections – Terms, definitions and parameters	IS 15264:2002 Geometrical product specification (GPS) – Surface imperfections– Terms, definitions and parameters	Identical

ISO 10209-1: 1992 Technical product documentation – Vocabulary – Part 1: Terms relating to technical drawings: general and types of drawings	IS 8930(Part 1):1995 Technical product documentation – Vocabulary Part 1 Terms relating to technical drawings : General and types of drawings (<i>first revision</i>)	Identical
ISO 11562: 1996 ¹⁾ Geometrical Product Specifications (GPS) – Surface texture: Profile method – Metrological characteristics of phase correct filters	IS 15375:2003 Geometrical product specifications (GPS) – Surface texture: Profile method – Metrological characteristics of phase correct filters	Identical
ISO 12085: 1996 Geometrical Product Specifications (GPS) – Surface texture: Profile method – Motif parameters	IS 15422:2003 Geometrical product specifications (GPS) – Surface texture: Profile method – Motif parameters	Identical
ISO 13565-1: 1996 Geometrical Product Specifications (GPS) – Surface texture: Profile method; Surfaces having stratified functional properties – Part 1: Filtering and general measurement conditions	IS 15421(Part 1):2003 Geometrical product specifications (GPS) – Surface texture: Profile method – Surface having stratified functional properties – Part 1: Filtering and general measurement conditions	Identical
ISO 13565-2: 1996 Geometrical Product Specifications (GPS) – Surface texture: Profile method; Surfaces having stratified functional properties – Part 2: Height characterization using the linear material ratio curve	IS 15421(Part 2):2003 Geometrical product specifications (GPS) – Surface texture: Profile method – Surface having stratified functional properties – Part 2: Height characterization using the linear material ratio curve	Identical
ISO 13565-3: 1998 Geometrical Product Specifications (GPS) – Surface texture: Profile method; Surfaces having stratified functional properties – Part 3: Height characterization using the material probability curve	IS 15421 (Part 3) :2003 Geometrical product specifications (GPS) – Surface texture: Profile method – Surface having stratified functional properties – Part 3 Height characterization using the material probability curve	Identical
ISO 14253-1: 1998 Geometrical Product Specifications (GPS) – Inspection by measurement of	IS 15371(Part 1): 2003 Geometrical product specifications (GPS) – Inspection by measurement of	Identical

¹⁾ Since superseded by ISO 16610-21: 2011

workpieces and measuring equipment – Part 1: Decision rules for proving conformance or non-conformance with specifications
workpieces and measuring equipment – Part 1: Decision rules for proving conformance of non-conformance with specifications

The concerned technical committee has reviewed the provisions of following International Standards referred in this adopted standard and has decided that they are acceptable for use in conjunction with this standard:

International Standard

Title

ISO 10135:2007	Geometrical product specifications (GPS) – Drawing indications for moulded parts in technical product documentation (TPD)
ISO 14660-1: 1999	Geometrical Product Specifications (GPS) – Geometrical features – Part 1: General terms and definitions
ISO 81714-1: 1999 ²⁾	Design of graphical symbols for use in the technical documentation of products – Part 1: Basic rules

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2:1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

NOTE: The technical content of draft is not available on website. For details please refer ISO 1302: 2002 or contact:

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²⁾ Since revised in 2010