

BUREAU OF INDIAN STANDARDS
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भारतीय मानक मसौदा

ज्यामितीय उत्पाद विशिष्टि (जीपीएस) – निस्पंदन

भाग 21 रैखिक प्रोफाइल फिल्टर – गॉसियन फिल्टर

[IS 18430 (भाग 21) का पहला पुनरीक्षण]

Draft Indian Standard

Geometrical Product Specifications (GPS) — Filtration

Part 21 Linear Profile Filters — Gaussian Filters

[First Revision of IS 18430 (Part 21)]

ICS 17.040.20

Engineering Metrology Sectional
Committee, PGD 25

Last date for receipt of comment is:
31 May 2025

NATIONAL FOREWORD

This Indian Standard (Part 21) which is identical with ISO 16610-21 : 2025 ‘Geometrical product specifications (GPS) — Filtration — Part 21: Linear profile filters: Gaussian filters’ issued by the International Organization for Standardization (ISO) will be adopted by the Bureau of Indian Standards on the recommendation of the Engineering Metrology Sectional Committee and approval of the Production and General Engineering Division Council.

This Indian Standard was first published in 2023. This first revision has been brought out to align it with ISO 16610-21 : 2025.

The major changes in this revision are as follows:

- Providing implementation details for open and closed profiles, and
- Providing the treatment of end effects.

This standard has been published in several parts, other parts in this series are:

- Part 1 Overview and basic concepts
- Part 20 Linear profile filters: Basic concepts
- Part 22: Linear profile filters: Spline filters
- Part 28 Profile filters: End effects
- Part 29 Linear profile filters: wavelets
- Part 30 Robust profile filters: Basic concepts
- Part 31 Robust profile filters: Gaussian regression filters
- Part 32 Robust profile filters: Spline filters
- Part 40 Morphological profile filters: Basic concepts

Part 41 Morphological profile filters: Disk and horizontal line-segment filters
Part 49 Morphological profile filters: Scale space techniques
Part 60 Linear areal filters: Basic concepts
Part 61 Linear areal filters: Gaussian filters
Part 62 Linear areal filters: spline filters
Part 71 Robust areal filters: Gaussian regression filters
Part 85: Morphological areal filters: Segmentation

The text of ISO Standard has been approved as suitable for publication as an Indian Standard without deviations. Certain 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 respective places, are listed below along with their degree of equivalence for the editions indicated:

<i>International Standard</i>	<i>Corresponding Indian Standard</i>	<i>Degree of Equivalence</i>
ISO 16610-1 Geometrical product specifications (GPS) — Filtration — Part 1: Overview and basic concepts	IS 18430 (Part 1) : 2023/ ISO 16610-1: 2015 Geometrical product specifications (GPS) — Filtration: Part 1 Overview and basic concepts	Identical
ISO 16610-20 Geometrical product specifications (GPS) — Filtration — Part 20: Linear profile filters: Basic concepts	IS 18430 (Part 20) : 2023/ ISO 16610-20:2015 Geometrical product specifications (GPS) — Filtration: Part 20 Linear profile filters — Basic concepts	Identical
ISO/IEC Guide 99 International vocabulary of metrology — Basic and general concepts and associated terms (VIM)	IS/ISO/IEC Guide 99 : 2007 International vocabulary of metrology — Basic and general concepts and associated terms (VIM)	Identical

NOTE: The technical content of draft standard is not available on website. For details please refer to ISO 16610-21 : 2025 or contact:

Head
Production and General Engineering Department
Bureau of Indian Standards
9 Bahadur Shah Zafar Marg
New Delhi-110002
Email: pgd@bis.gov.in
Telefax: 011-23234819