***भारतीय मानक***

***Indian Standard***

**IS 5920 (Part 6) : 2024**

**ISO 10110-9 : 2016**

प्रकाशिकी और फोटोनिक्स — प्रकाशीय तत्वों और प्रणालियों के लिए आरेखण तैयार करना

भाग 6 सतही उपचार और कोटिंग

**Optics and Photonics — Preparation of Drawings for Optical Elements**

**and Systems**

**Part 6 Surface Treatment and Coating**

ICS 01.100.20; 37.020

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भारतीय मानक ब्यूरो

BUREAU OF INDIAN STANDARDS

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Optics and Photonics Sectional Committee, PGD 39

NATIONAL FOREWORD

This Indian Standard (Part 6) which is identical with ISO 10110-9: 2017 ‘Optics and photonics — Preparation of drawings for optical elements and systems — Part 9: Surface treatment and coating’ issued by the International Organization for Standardization (ISO) was adopted by the Bureau of Indian Standards on the recommendation of the Optics and Photonics Sectional Committee and approval of the Production and General Engineering Division Council.

This standard specifies the presentation of design and functional requirements for optical elements and systems in technical drawings used for manufacturing and inspection. This part also specifies rules for indicating the treatments and coatings applied to optical surfaces for functional and protective purposes.

This standard has been published in thirteen parts. Part 1 of this series supersedes the originally published Indian Standard IS 5920 : 1970 ‘Recommendation for the preparation of drawing for optical elements and system’. The other parts in this series are:

Part 1 General

Part 2 Surface form tolerances

Part 3 [Centring tolerances](https://www.iso.org/en/contents/data/standard/05/57/55772.html)

Part 4 Surface imperfections

Part 5 Surface texture

Part 7 Non-toleranced data

Part 8 Aspheric surfaces

Part 9 Wavefront deformation tolerance

Part 10 Diffractive surfaces

Part 11 Laser irradiation damage threshold

Part 12 Stress birefringence, bubbles and inclusions, homogeneity, and striae

Part 13 General description of surfaces and components

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

1. Wherever the words ‘International Standard’ appear referring to this standard, they should be read as ‘Indian Standard’.
2. 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

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| --- | --- | --- |
| *International Standard* | *Corresponding Indian Standard* | *Degree of Equivalence* |
| ISO 128-24 Technical drawings — General principles of presentation — Part 24: Lines on mechanical engineering drawings | IS 10714 (Part 24) : 2018/ ISO 128-24 : 2014 Technical Drawings —General Principles of Presentation : Part 24 Lines on Mechanical Engineering Drawings | Identical |
| ISO 9211-1 Optics and photonics — Optical coatings — Part 1: Definitions | IS 16506 (Part 1) : 2016/ISO 9211-1 : 2018 Optics and photonics — Optical coatings — Part 1 definitions Optics and photonics — Optical coatings : Part 1 definitions | Identical |
| ISO 9211-2 Optics and photonics — Optical coatings — Part 2: Optical properties | IS 15573 : 2018/ISO 9211-2 : 2010 Polyaluminium chloride (First Revision) | Identical |

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