

**BUREAU OF INDIAN STANDARDS**

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**Doc No.: PGD 39 (23506)**

**IS 5920 (Part 6) : 2023**

**ISO 10110-9 : 2016**

**November 2023**

*भारतीय मानक मसौदा*

**प्रकाशिकी और फोटोनिक्स – प्रकाशीय तत्वों और प्रणालियों के लिए आरेखण तैयार करना**

**भाग 6 सतही उपचार और कोटिंग**

*Draft Indian Standard*

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

**Part 6 Surface Treatment and Coating**

ICS 01.100.20; 37.020

Optics and Photonics, 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) will be 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’. Other parts in this series are:

Part 1	General
Part 2	Surface form tolerances
Part 3	Centring tolerances
Part 4	Surface imperfections
Part 5	Surface texture
Part 7	Non-toleranced data
Part 8	Aspheric surfaces
Part 9	Wavefront deformation tolerance

Part 10	Diffraction 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

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

**NOTE:** The technical content of draft standard is not available on website. For details, please refer to ISO 10110-9 : 2023 or contact:

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