

**BUREAU OF INDIAN STANDARDS**  
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*भारतीय मानक मसौदा*

प्रकाशिकी और फोटोनिक्स — ऑप्टिकल कोटिंग्स  
भाग 5 एंटीरिफ्लेक्टिंग कोटिंग्स के लिए न्यूनतम आवश्यकताएं

*Draft Indian Standard*

**Optics and photonics — Optical coatings**

**Part 5 Minimum requirements for antireflecting coatings**

ICS 37.020

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Optics and Photonics Sectional Committee,  
PGD 39

Last date for receipt of comment is: **28  
November 2025**

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**NATIONAL FOREWORD**

This Indian Standard (Part 5) which is identical with ISO 9211-5: 2018 ‘Optics and photonics Optical coatings : Part 5 Minimum requirements for antireflecting coatings’ 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 has been published in several parts, other parts in this series are:

- Part 1 Vocabulary
- Part 2 Optical properties
- Part 3 Environmental durability
- Part 4 Specific test methods: abrasion, adhesion and resistance to water
- Part 6 Minimum requirements for reflecting coatings
- Part 7 Minimum requirements for neutral beam splitter coatings
- Part 8 Minimum requirements for coatings used for laser optics

In this adopted standard, references appear 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 9211-1 Optics and photonics — Optical coatings — Part 1: Vocabulary	IS 16506 (Part 1):2016/ ISO 9211-1: 2024 Optics and photonics — Optical coatings — Part 1: Vocabulary	Identical
ISO 9211-2 Optics and photonics — Optical coatings — Part 2: Optical properties	IS 16506 (Part 2):2021 / ISO 9211-2:2024 Optics and photonics — Optical coatings — Part 2: Optical properties	Identical

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

<i>International Standard</i>	<i>Title</i>
ISO 9211-3	Optics and photonics — Optical coatings — Part 3: Environmental durability
ISO 9211-4	Optics and photonics — Optical coatings — Part 4: Specific test methods
ISO 9022-2	Optics and photonics — Environmental test methods — Part 2: Cold, heat and humidity
ISO 10110-7	Optics and photonics — Preparation of drawings for optical elements and systems — Part 7: Surface imperfections
ISO 10110-8	Optics and photonics — Preparation of drawings for optical elements and systems — Part 8: Surface texture; roughness and waviness
ISO 10110-9	Optics and photonics — Preparation of drawings for optical elements and systems — Part 9: Surface treatment and coating
ISO 13696	Optics and optical instruments — Test methods for radiation scattered by optical components

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 : 2022 ‘Rules for rounding off numerical values (second revision)’. 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 standard is not available on website. For details please refer to ISO 9211-5 : 2018 or contact:

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