Doc: PGD 39 (28764) WC
September 2025

BUREAU OF INDIAN STANDARDS
DRAFT FOR COMMENTS ONLY

भारतीय मानक मसौदा

प्रकाशिकी और फोटोनिक्स – ऑप्टिकल कोटिंग्स

भाग 8 लेज़र ऑप्टिक्स के लिए प्रयुक्त कोटिंग्स की न्यूनतम आवश्यकताएं

Draft Indian Standard

Optics and photonics Optical coatings
Part 8 Minimum requirements for coatings used for laser optics

ICS 37.020

Optics and Photonics Sectional Committee, PGD 39	Last date for receipt of comment is: **28 November 2025**

NATIONAL FOREWORD

This Indian Standard which is identical with ISO 9211-8 : 2018 'Optics and photonics Optical coatings : Part 8 Minimum requirements for coatings used for laser optics' 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 5 Minimum requirements for antireflecting coatings
Part 6 Minimum requirements for reflecting coatings
Part 7 Minimum requirements for neutral beam splitter coatings

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 the following International Standard for which Indian Standard also exists. The corresponding Indian Standard which is to be substituted in its place is listed below along with its degree of equivalence for the edition indicated:

International Standard	*Corresponding Indian Standard*	*Degree of Equivalence*
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

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:

International Standard	*Title*
ISO 9022-2	Optics and photonics — Environmental test methods — Part 2: Cold, heat and humidity
ISO 9211-2	Optics and photonics — Optical coatings — Part 2: Optical properties
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 11551	Optics and optical instruments — Lasers and laser-related equipment — Test method for absorptance of optical laser components
ISO 13696	Optics and optical instruments — Test methods for radiation scattered by optical components
ISO 10110-9	Optics and photonics — Preparation of drawings for optical elements and systems — Part 9: Surface treatment and coating
ISO 11151-1:2015	Lasers and laser-related equipment — Standard optical components — Part 1: Components for the UV, visible and near-infrared spectral ranges
ISO 11151-2:2015	Lasers and laser-related equipment — Standard optical components — Part 2: Components for the infrared spectral range
ISO 21254-1	Lasers and laser-related equipment — Test methods for laser-induced damage threshold — Part 1: Definitions and general principles
ISO 21254-2	Lasers and laser-related equipment — Test methods for laser-induced damage threshold — Part 2: Threshold determination

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 9211-8 : 2018 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