

International Standard



7944

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Optics and optical instruments — Reference wavelengths

Optique et instruments d'optique — Longueurs d'onde de référence

First edition — 1984-09-15

STANDARDSISO.COM : Click to view the full PDF of ISO 7944:1984

UDC 681.7.06 : 535.12.089.68

Ref. No. ISO 7944-1984 (E)

Descriptors : optical equipment, optical glass, optical properties, refractivity, optical dispersion power, wavelengths.

Price based on 2 pages

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 7944 was prepared by Technical Committee ISO/TC 172, *Optics and optical instruments*.

STANDARDSISO.COM : Click to view the full PDF of ISO 7944:1984

Optics and optical instruments — Reference wavelengths

0 Introduction

The reference wavelengths used for the characterization of optical glasses differ from country to country, thus making direct comparisons very complicated, because conversions or remeasurements become necessary.

The specifications laid down in this International Standard are intended to reduce the difficulties which have been encountered until now, thus improving mutual understanding and facilitating the evaluation of technical data concerning optical glasses, optical devices and spectacle lenses.

1 Scope and field of application

This International Standard specifies the wavelengths to be used for the characterization of optical glasses, all kinds of optical systems and instruments, together with spectacle lenses. It specifies two reference wavelengths and defines the associated principal refractive indices and principal dispersions. Abbe numbers are defined with regard to these reference wavelengths and the principal dispersions.

NOTE — It is envisaged, in the future, to specify only one reference wavelength.