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**Roller ball pens and refills —**  
**Part 2:**  
**Documentary use (DOC)**

*Stylos rollers et recharges —*

*Partie 2: Utilisation documentaire (DOC)*



## Foreword

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Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

International Standard ISO 14145-2 was prepared by Technical Committee ISO/TC 10, *Technical drawings, product definition and related documentation*, Subcommittee SC 9, *Media and equipment for drawing and related documentation*.

ISO 14145 consists of the following parts, under the general title *Roller ball pens and refills*:

- *Part 1: General use*
- *Part 2: Documentary use (DOC)*

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Printed in Switzerland

## Introduction

This part of ISO 14145 is applicable to roller ball pens for documentary use. Part 1 of ISO 14145 is applicable to roller ball pens for general use.

For documentary use, some requirements, in addition to those for general use, are necessary

- a) to assure the legibility of lettering, and
- b) for the handling and storage of documents during long periods of time (these requirements are often discussed with the archivist).

An example of documentary use is the preparation of documents that are required as evidence.

Furthermore, pens which meet the requirements for documentary use produce lines which are more resistant to modification (e.g. attempts to falsify a document) than those for general use.

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## Roller ball pens and refills —

### Part 2: Documentary use (DOC)

#### 1 Scope

This part of ISO 14145 establishes minimum quality requirements for roller ball pens (refillable or non-refillable) and refills for documentary use.

Basic requirements for roller ball pens for general use are given in ISO 14145-1.

#### 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 14145. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 14145 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 105-A02:1993, *Textiles — Tests for colour fastness — Part A02: Grey scale for assessing change in colour*.

ISO 105-B02:1994, *Textiles — Tests for colour fastness — Part B02: Colour fastness to artificial light: Xenon arc fading lamp test*.

ISO 12756:1998, *Drawing and writing instruments — Ball point pens and roller ball pens — Vocabulary*.

ISO 14145-1:1998, *Roller ball pens and refills — Part 1: General use*.

#### 3 Definitions

For the purposes of this part of ISO 14145, the definitions given in ISO 12756 apply.

#### 4 Requirements

##### 4.1 General requirements

See the general requirements given in ISO 14145-1:1998 (4.1 to 4.3.4, 4.3.7 and 4.3.8).

##### 4.2 Erasure resistance

The surface of the testing paper shall show clear evidence of damage before the line is rendered invisible when tested as specified in 6.2.1.