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

*Stylos à bille à encre gel et recharges —*  
*Partie 2: Utilisation documentaire (DOC)*

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## 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. Each 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. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 2.

The main task of technical committees is to prepare International Standards. 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.

ISO 27668-2 was prepared by Technical Committee ISO/TC 10, *Technical product documentation*.

ISO 27668 consists of the following parts, under the general title *Gel ink ball pens and refills*:

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

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## Introduction

This part of ISO 27668 is applicable to gel ink ball pens for documentary use.

Part 1 of ISO 27668 is applicable to gel ink 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 over 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.

The International Organization for Standardization (ISO) draws attention to the fact that it is claimed that compliance with this document may involve the use of a patent concerning aqueous gel ink-filled ballpoint pens.

The holder of this patent right has assured ISO that he is willing to negotiate licences under reasonable and non-discriminatory terms and conditions with applicants throughout the world. In this respect, the statement of the holder of this patent right is registered with ISO. Information may be obtained from:

Mitsubishi Pencil Company Limited  
Patent Administration Department, 5.23-37, Higashi-ohi  
JP-Shinagawa, Tokyo 140-8537  
Japan  
oomorih@mpuni.co.jp

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights other than those identified above. ISO shall not be held responsible for identifying any or all such patent rights.

# Gel ink ball pens and refills —

## Part 2: Documentary use (DOC)

### 1 Scope

This part of ISO 27668 establishes minimum quality requirements for gel ink ball pens (refillable or non-refillable) and refills for documentary use.

Basic requirements for gel ink ball pens for general use are given in ISO 27668-1.

### 2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

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

ISO 27668-1:2009, *Gel ink ball pens and refills — Part 1: General use*

### 3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 27668-1 apply.

### 4 Requirements

#### 4.1 General requirements

See the general requirements given in ISO 27668-1:2009 (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.

#### 4.3 Ethanol resistance

The line shall remain visible when tested as specified in 6.2.2.