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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 37853-2019

Gel ink ball pens and refills

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses the redrafting method to modify the use of ISO 27668-1.2017 "Neutral ink ballpoint pen and refills Part 1. General book

Write" and ISO 27668-2.2009 "Neutral Ink Ballpoint Pen and Refill Part 2. Document Writing".

Compared with ISO 27668-1.2017 and ISO 27668-2.2009, this standard has more structural adjustments. Appendix A lists this

The standard and ISO 27668-1.2017 and ISO 27668-2.2009 chapter number change comparison checklist.

There are technical differences between this standard and ISO 27668-1.2017 and ISO 27668-2.2009. The corresponding techniques are given in Appendix B.

A list of surgical differences and their causes.

This standard also made the following editorial changes.

--- Integrate ISO 27668-1.2017 and ISO 27668-2.2009 into one standard, change the standard name to "Neutral Ink Ballpoint Pen

And refills.

1 Scope

This standard specifies the terms and definitions, classification, requirements, test methods, inspection rules, signs, packaging, and neutral ink ballpoint pens and refills.

Transportation, storage.

This standard applies to neutral ink ballpoint pens (replacement and non-replaceable core) and refills for general writing and document writing (hereinafter referred to as "medium"

Sex pen and "refill").

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 191 packaging storage and transportation pictorial signs (GB/T 191-2008, ISO 780.1997, MOD)

GB/T 2828.1. Sampling procedures for sampling by sampling - Part 1 . Batch-to-batch sampling plan, searched by AQL

(GB/T 2828.1-2012, ISO 2859-1..1999, IDT)

GB/T 12654-2008 writing paper

GB 21027 General requirements for the safety of student supplies

QB/T 2309-2010 eraser

3 Terms and definitions

The following terms and definitions apply to this document.

The ISO maintains a terminology database for standardized use at the following URL.

3.1

Neutral ink ballpoint pen gelinkbalpen

When writing, the viscosity of the ink is significantly reduced due to the rotation of the ball, and the ballpoint pen whose viscosity is raised to or close to the static state viscosity when writing is stopped.

Note. See Appendix C.

4.1 Tip classification

The tip of the pen is classified according to the diameter of the ball as shown in Table 1.