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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 41440-2022

Drawing and writing instruments - Ball point pens and roller ball pens - Vocabulary

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Preview: page 1 of 3 shown, full document available. Complete English PDF, instant download:
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Table of Contents

foreword

1 Scope

2 Normative references

3 Terms and Definitions

3.1 Overview

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foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1.Structure and Drafting Rules of Standardization Documents"

drafted.

This document is equivalent to ISO 12756.2016 "Glossary of ink ballpoint pens and water-based ballpoint pens for drawing and writing instruments".

The following minimal editorial changes have been made to this document.

--- Added index.

Please note that some content of this document may be patented. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

This document defines terms related to ink-based ballpoint pens and water-based ballpoint pens.

2 Normative references

There are no normative references in this document.

3 Terms and Definitions

The following terms and definitions apply to this document.

ISO and IEC maintain terminology databases for standardization at.

3.1 Overview

3.1.1

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pen

A writing instrument with an ink supply system that can form stitches on the writing surface.

Note. There are exchangeable core and non-exchangeable core (one-time use) and other forms.

3.1.2

ballpoint pen balpen

A pen (3.1.1) incorporating an ink supply system based on a tip with a rotatable ball in the pen itself or in the refill (3.1.6).

3.1.3

Ink ballpoint pen balpointpen

Except for neutral ink ballpoint pens, use ballpoint pens with inks with a dynamic viscosity greater than 1000mPa.s (1000cP) at (23+/-2) degrees C

(3.1.2).

Note. In ISO 27668-1, neutral ink ballpoint pens are defined as those whose ink viscosity is significantly reduced due to the rotation of the ball during writing, and returns to the viscosity when writing is stopped.

A ballpoint pen that rises to or near resting viscosity.

3.1.4

water-based ballpoint pen rolerbalpen

In addition to neutral ink ballpoint pens, use ballpoint pens (3.1.2) with inks with a dynamic viscosity of less than 20mPa.s (20cP) at (23+/-2)°C.

3.1.5

ink sac cartridge

A disposable ink reservoir that can be removed from the pen when the ink runs out and is replaced with a (new) full container.

NOTE. See ISO 9175-1.

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