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**Roller ball pens and refills —**

Part 1:  
**General use**

AMENDMENT 1: Ball diameter for tip  
classification

**iTeh STANDARD PREVIEW**

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Stylos rollers et recharges —

Partie 1: Utilisation générale

ISO 14145-1:1998/Amd.1:2011

AMENDEMENT 1: Diamètre de la bille pour la classification des pointes  
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## Foreword

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Amendment 1 to ISO 14145-1:1998 was prepared by Technical Committee ISO/TC 10, *Technical product documentation*.

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### Part 1: General use

#### AMENDMENT 1: Ball diameter for tip classification

Page 1, Normative references

Replace the text with the following.

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 534, *Paper and board — Determination of thickness, density and specific volume*

ISO 535, *Paper and board — Determination of water absorptiveness — Cobb method*

ISO 536, *Paper and board — Determination of grammage*

ISO 554, *Standard atmospheres for conditioning and/or testing — Specifications*

ISO 868, *Plastics and ebonite — Determination of indentation hardness by means of a durometer (Shore hardness)*

ISO 2144, *Paper, board and pulps — Determination of residue (ash) on ignition at 900 °C*

ISO 5627, *Paper and board — Determination of smoothness (Bekk method)*

ISO 6588-1, *Paper, board and pulps — Determination of pH of aqueous extracts — Part 1: Cold extraction*

ISO 6588-2, *Paper, board and pulps — Determination of pH of aqueous extracts — Part 2: Hot extraction*

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

Page 2, Table 1

In the column “Ball diameter” replace the value “ $0,75 \leq \varnothing < 1,20$ ” for “Medium” with the value “ $0,75 \leq \varnothing < 1,00$ ” and replace the value “ $1,20 \leq \varnothing$ ” for “Broad” with the value “ $1,00 \leq \varnothing$ ” (see Table 1 below).

**Table 1**

Dimensions in millimetres

Tip classification (line width)	Tip code	Ball diameter
Extra fine	EF	$\varnothing < 0,55$
Fine	F	$0,55 \leq \varnothing < 0,75$
Medium	M	$0,75 \leq \varnothing < 1,00$
Broad	B	$1,00 \leq \varnothing$

Page 5, Table 4

In the column “Reference International Standard”, replace “ISO 6588” with “ISO 6588-1 and ISO 6588-2”.

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