## INTERNATIONAL STANDARD



INTERNATIONAL ORGANIZATION FOR STANDARDIZATION ORGANISATION INTERNATIONALE DE NORMALISATION ΜΕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

# Black leads for wood-cased pencils — Classification and diameters

### Mines graphite pour crayons à papier Classification et diamètres EVIEW (standards.iteh.ai)

ISO 9180:1988 https://standards.iteh.ai/catalog/standards/sist/75ff4160-a984-4c59-a9ce-1dabadc90247/iso-9180-1988

ISO

9180

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International Standard ISO 9180 was prepared by Technical Committee ISO/TC 10, *Technical drawings*.

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#### 1 Scope

#### **3** Classification

This International Standard specifies a classification and diameters for black leads used for wood-cased pencils. DAR the following 17 types:

#### 2 Definitions

(standards.iteh, 89, j), 6H, 5H, 4H, 3H, 2H, H, F, HB, B, 2B, 3B, 4B,

For the purposes of this International Standard, the following definitions apply.

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**2.1 black lead:** Solid writing material which consists of carbon (e.g. graphite) and a binding agent. The lead generates black lines which are erasable.

**2.2** hardness degree: Classification indicating increasing hardness from 6B to 9H and increasing line density from 9H to 6B.

NOTE - A scientific definition of hardness degree is not yet available.

**2.3** wood-cased pencil: Hand-held drawing tool which has the lead permanently secured in a wood case and which is capable of withstanding the force involved in drawing.

#### <sup>-9180</sup> Diameters

Lead diameters shall be as specified in table 1.

#### Table 1 – Diameters

Hardness degree (see 2.2)	Diameter mm
9H, 8H, 7H, 6H, 5H, 4H, 3H, 2H, H	> 1,8
F, HB, B, 2B, 3B, 4B, 5B, 6B	> 2

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Descriptors : drawing equipment, pencils, leads (pencils), classification, dimensions.

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