

# INTERNATIONAL STANDARD

**ISO**  
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## **Fluid draughting media —**

### **Part 1:**

**Water-based India ink — Requirements and test conditions**

*Fluides à dessin —*

*Partie 1: Encre de Chine aqueuses — Prescriptions et conditions d'essai*



Reference number  
ISO 9957-1:1992(E)

## 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.

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.

International Standard ISO 9957-1 was prepared by Technical Committee ISO/TC 10, *Technical drawings, product definition and related documentation*, Sub-Committee SC 9, *Media and equipment for drawing and related documentation*.

ISO 9957 consists of the following parts, under the general title *Fluid draughting media*:

- *Part 1: Water-based India ink for tracing paper — Requirements and test conditions*
- *Part 2: Water-based non-India ink for tracing paper — Requirements and test conditions*

Annex A of this part of ISO 9957 is for information only.

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# Fluid draughting media —

## Part 1:

# Water-based India ink — Requirements and test conditions

### 1 Scope

This part of ISO 9957 specifies the requirements and test conditions for water-based India ink intended for use in drawing instruments conforming to ISO 9175-1 used on natural tracing paper conforming to ISO 9961, to provide black line technical drawings<sup>1)</sup>.

### 2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this part of ISO 9957. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this part of ISO 9957 are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

ISO 5-2:1991, *Photography — Density measurements — Part 2: Geometric conditions for transmission density*.

ISO 5-4:1983, *Photography — Density measurements — Part 4: Geometric conditions for reflection density*.

ISO 554:1976, *Standard atmospheres for conditioning and/or testing — Specifications*.

ISO 2240:1982, *Photography — Colour reversal camera films — Determination of ISO speed*.

ISO 9175-1:1988, *Tubular tips for hand-held technical pens using India ink on tracing paper — Part 1: Definitions, dimensions, designation and marking*.

1) Term defined in ISO 10209-1.

ISO 9175-2:1988, *Tubular tips for hand-held technical pens using India ink on tracing paper — Part 2: Performance, test parameters and test conditions*.

ISO 9177-2:1989, *Mechanical pencils — Part 2: Black leads — Classification and dimensions*.

ISO 9961:1992, *Draughting media for technical drawings — Natural tracing paper*.

ISO 10209-1:1992, *Technical product documentation — Vocabulary — Part 1: Terms relating to technical drawings: general and types of drawings*.

### 3 Definitions

For the purposes of this part of ISO 9957, the definitions given in ISO 9175-1 and the following definition apply.

**3.1 India ink; China ink:** A water-based drawing fluid that contains dispersed carbon black as its primary colorant.

### 4 Requirements

Drawings made with India ink shall be reproducible using conventional reproduction techniques (blue-print, microfilming photography, electrostatics, etc.) assuming that reproduction and exposures consistent with the recommendations of the process and the supplier of the materials are used.

This part of ISO 9957 specifies the quality requirements of India ink lines as follows:

- line width (see 5.4.2);