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Determination of particle size distribution by gravitational liquid sedimentation methods —

Part 2: Fixed pipette method

*Détermination de la distribution granulométrique par les méthodes de
sédimentation par gravité dans un liquide —*

Partie 2: Méthode de la pipette fixe



Reference number
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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.

International Standards are drafted in accordance with the rules given in the ISO/IEC Directives, Part 3.

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.

Attention is drawn to the possibility that some of the elements of this part of ISO 13317 may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

International Standard ISO 13317-2 was prepared by Technical Committee ISO/TC 24, *Sieves, sieving and other sizing methods*, Subcommittee SC 4, *Sizing by methods other than sieving*.

ISO 13317 consists of the following parts, under the general title *Determination of particle size distribution by gravitational liquid sedimentation methods*:

- *Part 1: General principles and guidelines*
- *Part 2: Fixed pipette method*
- *Part 3: X-ray gravitational technique*

Annex A of this part of ISO 13317 is for information only.

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Introduction

This part of ISO 13317 describes a method to determine particle size distribution using a fixed position pipette apparatus commonly referred to as the Andreasen pipette. The Andreasen pipette employs an incremental method of analysis which gives the mass distribution directly. In incremental methods, the solids concentration at the measurement level determines directly the proportion by mass of the analysis sample that consists of particles having a diameter less than that corresponding to the velocity of fall at the time of sampling.