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STANDARD

7837

Second edition
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**Fertilizers — Determination of bulk density
(loose) of fine-grained fertilizers**

Engrais — Détermination de la masse volumique sans tassement des engrais fins



Reference number
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Foreword

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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 7837 was prepared by Technical Committee ISO/TC 134, *Fertilizers and soil conditioners*, Sub-Committee SC 3, *Physical properties*.

This second edition cancels and replaces the first edition (ISO 7837:1983), which has been technically revised.

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Introduction

A method for the determination of the bulk density (loose) of solid fertilizers having particle sizes within the frequently encountered range from about 0,5 mm to 5 mm is specified in ISO 3944:1992, *Fertilizers — Determination of bulk density (loose)*. This method is not, however, suitable for fine-grained fertilizers having a large proportion of particles of diameters less than 0,5 mm. Such fertilizers pass with difficulty, in most cases, from the specified funnel into the measuring cylinder, generally cause considerable dust nuisance, and are inclined to form hollow spaces (air cavities) within their bulk volume. The bulk density values obtained are, thus, too low.

In the case of fine-grained fertilizers, therefore, it is necessary to use a dust-tight, non-clogging apparatus, with a relatively wide measuring cylinder.