



Fertilizers — Determination of bulk density (loose)

Engrais — Détermination de la masse volumique sans tassement

ISO 3944

**Fourth edition
2026-02**



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ISO copyright office
CP 401 • Ch. de Blandonnet 8
CH-1214 Vernier, Geneva
Phone: +41 22 749 01 11
Email: copyright@iso.org
Website: www.iso.org

Published in Switzerland

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This document was prepared by Technical Committee ISO/TC 134, *Fertilizers, soil conditioners and beneficial substances*.

This fourth edition cancels and replaces the third edition (ISO 3944:1992) of which it constitutes a minor revision. The changes are as follows:

- the normative reference to ISO 8358 in [Clause 6](#) was changed to ISO 14820-2.

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The bulk densities (loose and tapped) of a fertilizer provide information relative to the required size of packaging materials, store-houses, stock-rooms, etc. Generally, the bulk density (tapped) is up to 10 % greater than the bulk density (loose), and sometimes it can exceed this value. Both bulk densities depend on the actual density, surface form and particle size of the fertilizers.

The bulk density (loose) can be used to calculate the maximum volume of a given mass of fertilizer which can be expected in practice. The actual volume occupied by a given mass of fertilizer will normally be within the range calculated from the bulk density (loose) and the bulk density (tapped).