INTERNATIONAL STANDARD

ISO
8397

Second edition
1988-02-01

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

Solid fertilizers and soil conditioners — Test sieving

Matières fertilisantes solides— Tamisage de contrôle

Reference number
ISO 8397 : 1988 (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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council. They are approved in accordance with ISO procedures requiring at least 75 % approval by the member bodies voting.

International Standard ISO 8397 was prepared by Technical Committee ISO/TC 134, *Fertilizers and soil conditioners.*

This second edition cancels and replaces the first edition (ISO 8397 : 1986), clause 10 of which has been amended.

Users should note that all International Standards undergo revision from time to time and that any reference made herein to any other International Standard implies its latest edition, unless otherwise stated.

Solid fertilizers and soil conditioners — Test sieving

1 Scope and field of application

This International Standard specifies a method for the determination of the particle size distribution of solid fertilizers and soil conditioners by test sieving.

NOTE — The applicability of the method has been tested with sieves of nominal sizes of openings between 100 µm and 5,60 mm.

2 References

ISO 565, *Test sieves — Woven metal wire cloth, perforated plate and electroformed sheet — Nominal sizes of openings.*

ISO 2395, *Test sieves and test sieving — Vocabulary.*

ISO 2591, *Test sieving.*

ISO 3310-1, *Test sieves — Technical requirements and testing — Part 1: Test sieves of metal wire cloth.*

ISO 3944, *Fertilizers — Determination of bulk density (loose).*

ISO 3963, *Fertilizers — Sampling from a conveyor by stopping the belt.*

ISO 7410, *Fertilizers and soil conditioners — Final samples — Practical arrangements.*

3 Definitions

For the purpose of this International Standard, the definitions of ISO 2395 apply.

4 Principle

Dry sieving of a fertilizer sample with one or more test sieves using a mechanical sieving machine.

5 Apparatus

5.1 Balance, capable of weighing to the nearest 0,1 g.

5.2 Stainless steel woven wire test sieves, 200 mm diameter, complying with ISO 3310-1, with a lid and receiver for the sieves.

5.3 Mechanical shaker (sieving machine), capable of imparting both horizontal and vertical motion to material inside a nest of sieves.

5.4 Stopwatch.

5.5 Soft brush.

6 Sampling

See ISO 3963 and ISO 7410.

7 Preparation of the test portion

Reduce the sample (a method will form the subject of a future International Standard) to the quantity required for the sieving test. This quantity should be approximately that indicated in column 2 of table 1 for the sieve corresponding to the dominant size fraction of the sample, provided that the size distribution does not cause excess volume on any of the sieves in the set as indicated in column 3 of table 1.