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МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ

Instant coffee — Determination of free-flow and compacted bulk densities

Café soluble — Détermination de la masse volumique sans tassement et après tassement

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Foreword

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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 8460 was prepared by Technical Committee ISO/TC 34, *Agricultural food products*.

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.

Instant coffee — Determination of free-flow and compacted bulk densities

0 Introduction

A knowledge of the bulk density of instant coffee is essential to trade in that commodity for it determines the volume occupied by a given mass and hence is an important factor in filling containers correctly and for controlling the mass of instant coffee.

Bulk density is defined as the ratio of mass to volume. The volume of a given sample of instant coffee varies, according to its history of handling, due to compaction (reversible) and powder breakdown (irreversible) effects. Bulk densities can be expressed in two ways : free-flow density and compacted density.

Instant coffee is friable and subject to irreversible powder breakdown effects which may occur with repeated determinations of the compacted density. Because both bulk densities (and in particular the compacted density) depend so critically on the methods used for handling, it is particularly important that the methods adopted for their measurement be as simple and as independent of the human factors as possible. It is also important that any mechanical apparatus needed is standard-

ized, cheap, and easily available throughout those parts of the world where instant coffee is produced, blended, reprocessed and packed.

1 Scope and field of application

This International Standard specifies two methods for the determination of the bulk density of instant coffee :

- a) free-flow bulk density (**section one**) ;
- b) compacted bulk density (**section two**).

2 References

ISO 787-11, *General methods of test for pigments and extenders — Part 11 ; Determination of tamped volume and apparent density after tamping.*

ISO 6670, *Soluble coffee in cases with liners — Sampling.*