

**Rice - Determination of rice kernel resistance to
extrusion after cooking (ISO 11747:2012)**

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NATIONAL FOREWORD

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ICS 67.060

English Version

Rice - Determination of rice kernel resistance to extrusion after
cooking (ISO 11747:2012)

Riz - Détermination de la résistance à l'extrusion des grains
de riz après cuisson (ISO 11747:2012)

Reis - Bestimmung des Extrusionswiderstandes von
Reiskorn nach dem Kochen (ISO 11747:2012)

This European Standard was approved by CEN on 31 July 2012.

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Foreword

This document (EN ISO 11747:2012) has been prepared by Technical Committee ISO/TC 34 "Food products" in collaboration with Technical Committee CEN/TC 338 "Cereal and cereal products" the secretariat of which is held by AFNOR.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by February 2013, and conflicting national standards shall be withdrawn at the latest by February 2013.

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Endorsement notice

The text of ISO 11747:2012 has been approved by CEN as a EN ISO 11747:2012 without any modification.

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Rice — Determination of rice kernel resistance to extrusion after cooking

1 Scope

This International Standard specifies a method for the determination of resistance to extrusion of milled rice kernels, parboiled or not parboiled, after cooking under specified conditions.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 712, *Cereals and cereal products — Determination of moisture content — Reference method*

ISO 7301, *Rice — Specification*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in ISO 7301 and the following apply.

3.1

cooked rice

rice brought into contact with hot liquids with the intention of making it suitable for consumption

3.2

resistance to extrusion

ease of pushing cooked rice through a perforated plate using compression and shear

NOTE An example of suitable perforated plate is the Ottawa cell.¹⁾

4 Principle

Measurement of the force required to extrude cooked rice through a perforated plate.

5 Apparatus

Usual laboratory apparatus and, in particular, the following.

5.1 Beakers, borosilicate glass, capacity of 100 ml.

5.2 Cooking container, with a non-hermetic lid and a perforated plate on which the beakers (5.1) are placed. The level of water in the cooking container shall be such that it does not rise above the perforated plate during boiling, ensuring that cooking occurs exclusively by steam.

5.3 Sample divider,²⁾ **conical sampler** or **multiple-slot sampler** with a distribution system, or other equivalent equipment.

1) The Ottawa cell is an example of a suitable product available commercially. This information is given for the convenience of users of this document and does not constitute an endorsement by ISO of this product.

2) Some sample dividers are described in ISO 24333.^[2]