
International Standard



6884

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Animal and vegetable fats and oils — Determination of ash

Corps gras d'origines animale et végétale — Détermination des cendres

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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.

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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.

Animal and vegetable fats and oils — Determination of ash

1 Scope and field of application

This International Standard specifies a method for the determination of ash, applicable to all animal and vegetable fats and oils, including acid oils.

2 References

ISO 661, *Animal and vegetable fats and oils — Preparation of test sample*.

ISO 5555, *Animal and vegetable fats and oils — Sampling*.

3 Definition

For the purpose of this International Standard, the following definition applies.

ash: The inorganic residue left after incineration under the conditions specified, and expressed as a percentage by mass.

4 Principle

Incineration of a test portion at a specified temperature and weighing the residue obtained.

5 Reagents

All the reagents shall be of recognized analytical quality and the water used shall be distilled water or water of at least equivalent purity.

5.1 Hydrogen peroxide solution, 10 % (V/V).

5.2 Ammonium carbonate.

6 Apparatus

Usual laboratory equipment, and in particular

6.1 Crucible (low form) of 50 ml capacity, preferably of silica or platinum.

6.2 Hotplate or flame burner.

6.3 Furnace, capable of being operated between 500 and 600 °C.

6.4 Filter-paper, ashless.

6.5 Water-bath, boiling.

6.6 Desiccator.

7 Sampling

See ISO 5555.

8 Procedure

8.1 Preparation of the test sample

Prepare the test sample from the laboratory sample in accordance with ISO 661.

8.2 Crude and refined fats and oils

8.2.1 First heat the crucible (6.1) in the furnace (6.3) maintained at 550–600 °C, then cool in a desiccator (6.6) and weigh to