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मानक



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“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

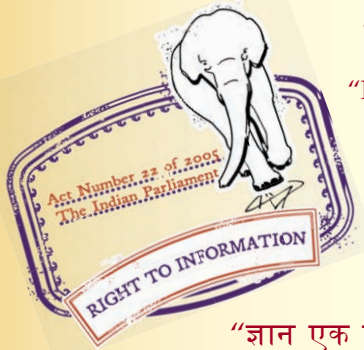
“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 3796 (1993, Reaffirmed 2009): Spices and Condiments--Fennel Seeds, Whole--Specification (First Revision). UDC 664.5 : 635.757



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”



REAFFIRMED
IS 3796 : 1993
- - JAN 2009

भारतीय मानक

मसाले एवं मसाले – सौंफ बीज, सम्पूर्ण – विशिष्ट

(पहला पुनरीक्षण)

Indian Standard

SPICES AND CONDIMENTS — FENNEL SEEDS,
WHOLE — SPECIFICATION

(*First Revision*)

UDC 664.5 : 635.757

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

September 1993

Price Group 1

FOREWORD

This Indian Standard (First Revision) was adopted by the Bureau of Indian Standards after the draft finalized by the Spices and Condiments Sectional Committee had been approved by the Food and Agriculture Division Council.

Fennel seeds, commonly known as *SAUNF*, are one of the spices exported from India. A sizable quantity of these seeds is exported to United Kingdom and to some of the European and Middle Eastern countries. They are also known to be extensively used within the country for culinary purposes and for preparing indigenous medicines, essences, etc.

This standard was first issued in 1966. This revision is brought out for incorporating the latest developments in the field and also to align to International Standard. Requirements for extraneous matter have been incorporated and the requirements for moisture reviewed and updated.

This standard is subject to the restrictions imposed under the *Prevention of Food Adulteration Act, 1954* and the *Rules* framed thereunder, wherever applicable.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

AMENDMENT NO. 1 JANUARY 1994
TO
IS 3796 : 1993 SPICES AND CONDIMENTS — FENNEL
SEEDS, WHOLE — SPECIFICATION

(First Revision)

[Page 1, Table 1, Sl No. (vi), col 2] — Substitute the following for the existing:

'Other edible seeds, percent by mass, *Max.*'

(FAD 9)

Reprography Unit, BIS, New Delhi, India

Indian Standard

SPICES AND CONDIMENTS — FENNEL SEEDS, WHOLE — SPECIFICATION

(*First Revision*)

1 SCOPE

This standard prescribes the requirements for dried fruits (seeds) of fennel (*Foeniculum vulgare* Mill.).

2 REFERENCES

The following Indian Standards are necessary adjuncts to this standard:

IS No.	Title
1070 : 1992	Reagent grade water (<i>third revision</i>)
1797 : 1985	Methods of test for spices and condiments (<i>second revision</i>)
13145 : 1993	Spices and condiments — Methods of sampling (<i>first revision</i>)

3 TERMINOLOGY

3.1 For the purpose of this standard, the following definitions shall apply.

3.1.1 Extraneous Matter

It includes organic matter, such as calyx pieces, stalklets, loose tops, stem, straw or any other vegetable matter. It also includes inorganic matter such as dust, dirt, stones, lumps of earth, sand and grit.

3.1.2 Damaged, Discoloured and Weeviled Seeds

This includes fennel seeds that are damaged or discoloured so as to affect the quality of the material and also includes seeds showing signs of bores in the seeds as a result of their having been eaten up by weevils or insects.

3.1.3 Shrivelled and Immature Seeds

These are seeds that have not been properly developed.

4 GRADES

4.1 Fennel seeds shall be of three grades, namely, special, good and fair (*see* Table 1).

5 REQUIREMENTS

5.1 Description

The fennel seeds shall be the dried fruits (seeds) of *Foeniculum vulgare* Mill. Seeds shall be yellowish green to drak green in colour, and shall have the characteristic size and shape of type or variety. The seeds shall be reasonably dry.

5.2 Taste and Flavour

The taste and flavour of fennel seeds shall be fresh and characteristic of the type and variety. The material shall be free from foreign taste and flavour as well as from any musty odour.

Table 1 Grade Designations of Fennel, Whole and their Requirements
(*Clause 4.1*)

Sl No.	Characteristic	Requirement			Method of Test, Ref to Cl No. of IS 1797 : 1985
		Special (3)	Good (4)	Fair (5)	
(1)	(2)				(6)
i)	Moisture, percent by mass, <i>Max</i>	10.0	10.0	10.0	9
ii)	Volatile oil, percent by mass, <i>Min</i>	1.75	1.5	1.0	15
iii)	Extraneous matter*, percent by mass, <i>Max</i>	1.0	2.0	4.0	4
iv)	Damaged, discoloured and weeviled seed, percent by mass, <i>Max</i>	1.5	3.0	5.0	4
v)	Shrivelled and immature seeds, percent by mass, <i>Max</i>	1.5	3.0	5.0	4
vi)	Other edible seeds	—	—	5	4

*Inorganic extraneous matter shall not be more than 2 percent by mass.

5.3 Freedom from Moulds and Insects

Fennel seeds shall be free from visible insect and moulds, and shall be practically free from dead insects and contamination by rodents, visible to the naked eye, corrected, if necessary, in any particular case. In case the magnification exceeds X 10, this fact should be stated in the test report.

5.4 The grade designation and the requirements for each of them shall be as given in Table 1.

6 PACKING

Fennel seeds shall be packed in sound, clean and dry containers made of jute, cloth, paper or polyethylene. The containers shall be free from insect or fungal infestation as well as from any undesirable odour.

7 MARKING

7.1 The following particulars shall be marked or labelled on each container:

- a) Name of the material and grade designation;

- b) Variety of trade name or brand name, if any;
- c) Batch or code number;
- d) Net mass
- e) Date of packing; and
- f) Country of origin.

8 SAMPLING

8.1 Representative samples of fennel seeds shall be drawn according to IS 13145 : 1993.

9 TESTS

9.1 Tests shall be carried out in accordance with Table 1.

9.2 Quality of Reagents

Unless specified otherwise, pure chemicals and distilled water (see IS 1070 : 1992) shall be employed in tests

NOTE — 'Pure chemicals' shall mean chemicals that do not contain impurities which affect the results of analysis.