

SINGAPORE STANDARD

# **Specification for refined, deodorized and winterized sunflower seed oil**

Confirmed 2010



Published by

**SPRING**  
singapore  
*Enabling Enterprise*

**SS 349 : 1997 (2010)**  
(ICS 67.200.20)

---

SINGAPORE STANDARD

**Specification for refined, deodorized and winterized  
sunflower seed oil**

---

All rights reserved. Unless otherwise specified, no part of this Singapore Standard may be reproduced or utilised in any form or by any means, electronic or mechanical, including photocopying and microfilming, without permission in writing from SPRING Singapore at the address below:

Standards  
SPRING Singapore  
1 Fusionopolis Walk,  
#01-02 South Tower, Solaris  
Singapore 138628  
Email : [standards@spring.gov.sg](mailto:standards@spring.gov.sg)

ISBN 9971-67-588-9

**SS 349 : 1997**

This Singapore Standard having been approved by the Food Standards Committee was endorsed by the Standards Council on 17 April 1997.

First published, 1990.

First revision, 1997.

The Food Standards Committee appointed by the Standards Council consists of the following members:

	<b>Name</b>	<b>Organisation</b>
<b>Chairman</b>	Mr Wong Mong Hong	Standards Council
<b>Deputy Chairman</b>	Mr Chong Kok Yoong	Singapore Productivity and Standards Board
<b>Secretary</b>	Ms Ho Phuy Bee	Singapore Productivity and Standards Board
<b>Members</b>	Mr Hamzah Bani	Singapore Malay Chamber of Commerce
	Dr Bosco C Bloodworth /	Institute of Science and Forensic Medicine
	Dr Sam Cheuck Tatt	
	Mr Chia Hong Kuan	Ministry of the Environment
	Dr Chua Sin Bin	Primary Production Department
	Ms Normala Ghapar	Expenditure Policies Unit
	Mr Francis N K Goh	Association of Small and Medium Enterprises
	Dr Kwok Kain Sze	Singapore International Chamber of Commerce
	Mr Gandhi Rasesh N	Singapore Indian Chamber of Commerce and Industry
	Mr Soh Boon Thong	Singapore Food Manufacturers' Association
	Mr Tan Jin Soon	Singapore Article Number Council
	Mr Tan Khieng Sin	Singapore Chinese Chamber of Commerce and Industry
	Dr Tan Kok Kheng	Singapore Confederation of Industries
	Mr Teo Hee Peng	Ministry of Defence
	Dr Mabel Yap	Ministry of Health
	Mr Yeoh Guan Huah	Singapore Institute of Food Science and Technology

The Technical Committee appointed by the Food Standards Committee and responsible for the preparation of this standard consists of representatives from the following organisations:

	<b>Name</b>	<b>Organisation</b>
<b>Chairman</b>	Dr Sam Cheuck Tatt	Food Standards Committee
<b>Secretary</b>	Ms Bernice Jacob	Singapore Productivity and Standards Board
<b>Members</b>	Mr Chong Kok Yoong	Singapore Productivity and Standards Board
	Ms Seah Huay Leng	Ministry of the Environment
	Mr Tan Jin Soon	Singapore Article Number Council
<b>Co-oped Members</b>	Mr A M Farokh	Individual Capacity
	Dr Ong Hian Eng	Individual Capacity
	Mr Wong Mong Hong	Individual Capacity

## CONTENTS

												Page
Foreword	-	-	-	-	-	-	-	-	-	-	-	4

## SPECIFICATION

1.	Scope	-	-	-	-	-	-	-	-	-	-	5
2.	Definition	-	-	-	-	-	-	-	-	-	-	5
3.	Requirements	-	-	-	-	-	-	-	-	-	-	5
4.	Sampling	-	-	-	-	-	-	-	-	-	-	5
5.	Tests	-	-	-	-	-	-	-	-	-	-	5
6.	Packaging	-	-	-	-	-	-	-	-	-	-	5
7.	Marking-	-	-	-	-	-	-	-	-	-	-	6

## TABLES

1.	Chemical and physical characteristics	-	-	-	-	-	-	-	-	-	6
2.	GLC ranges of fatty acid composition	-	-	-	-	-	-	-	-	-	7

SINGAPORE STANDARD

**SPECIFICATION FOR REFINED, DEODORIZED AND  
WINTERIZED SUNFLOWER SEED OIL**

FOREWORD

This Singapore Standard was prepared by the Technical Committee on Edible Fats and Oils under the direction of the Food Standards Committee.

It is a revision of SS 349 : 1990 - 'Specification for Refined, Deodorized and Winterized Sunflower Seed Oil'. The revision was necessary to bring the standard in line with international requirements and current industry practice.

In preparing this standard, references were made to the following overseas standards:

1. AOCS Official Methods and Recommended Practices, Additions and Revisions through 1991 and Addendum January 1992, Vols I and II by American Oil Chemists' Society Incorporated.
2. BS 7207 : 1990 - Specification for crude vegetable fats
3. Codex Stan 23-1981 (Rev 1 - 1989) - Codex Standard for edible sunflowerseed oil
4. Codex Alimentarius Commission - Alinform 95/17 - Proposed draft standard for named vegetable oils and essential quality and composition factors
5. Codex Alimentarius Commission - Alinorm 95/21 - Part II, Addendum 1 - Proposed draft standard for named vegetable oils (Appendix VIII)
6. IS 4277 : 1975 - Specification for sunflower oil

Acknowledgement is made for the use of information from the above references.

**NOTE.**

1. Singapore Standards are subject to periodic review to keep abreast of technological changes and new technical developments. The revisions of Singapore Standards are announced through the issue of either amendment slips or revised editions.
2. Compliance with a Singapore Standard does not exempt users from legal obligations.

---

**SS 349 : 1997**

**1. SCOPE**

This Singapore Standard applies to refined, deodorized and winterized sunflower seed oil for edible purposes.

**NOTE.** The titles of the publications referred to in this standard are listed at the end of the standard.