

FLORATECH® ASIA
6 Fl., No. 360, Ruei Guang Rd.
Neihu, Taipei, Taiwan, ROC
Ph: 886 2 8751 6060; Fax: 886 2 8751 6363

FLORATECH® AMERICAS
1151 North Fiesta Blvd.
Gilbert, Arizona 85233-2238
Ph: 480-545-7000; Fax: 480-892-3000

FLORATECH® EU
Via Tanaro 15, 20017 Rho
Milan, Italy
Ph: 39 02 93 04946; Fax: 39 02 93 50 8238

see www.floratech.com to find your local Floratech representative

CERTIFICATE OF ANALYSIS

Products: FLORAESTERS® 15

Product Code: E1A-015

Lot Number: FELM35

Appearance: Clear, colorless liquid at or above room temperature (24°C). Below room temperature, partial crystallization may appear as white cloud-like formations which may settle to the bottom. The product can be used as is or warmed slightly to remove cloudiness.

<u>Typical Properties</u> ¹	<u>Methods</u>	<u>Units</u>	<u>Range</u>	
			min	max
Saponification Value	AOCS Cd 3-25 ²	mg KOH/g	88	96
Absence of trans isomers	AOCS Cd 14-95	wt %	none detected	
Dropping Point	TW68 ³	°C	10	15
Refractive Index @ 40°C	AOCS Cc 7-25	n _D	1.458	1.460
Specific Gravity @ 25°C	AOCS Cc 10b-25	---	0.862	0.867
Triglyceride Content	TW31	wt %	---	1

Specification Values⁴

					<u>Actual</u>
Acid Value	AOCS Gi 4-91	mg KOH/g	---	1	0.1
Color	AOCS Cc 13e-92	Lovibond, 5.25"	---	1.5 Red	0.5 Red
Ester Composition	☐ PDFW08OPY ☐ LOTUS NOTES COPY REVIEWED BY: <i>Jamie Meyer</i> DATE: <i>26 Feb 04</i> RETAIN WITH PRODUCTION PAPERWORK!				
C ₃₆			---	2	1
C ₃₈			5	8	7
C ₄₀			34	40	38
C ₄₂			35	44	38
C ₄₄			11	15	12
C ₄₆			---	2	2
Iodine Value	AOCS Cd 1d-92	g/100g	78	85	84.8 <i>th</i>
Peroxide Value	AOCS Cd 8-53	meq/kg	---	4	0
Absence of microbial contamination	TW26	CFU/g	---	100	<100

Composition (INCI Names)

	<u>Wt. %</u>
Tocopherols	0.05
Jojoba Esters	99.95

Shelf Life (from date of purchase)

1 year⁵

Signature:

David Ashley

Title:

Chemist

Name:

David Ashley

Date Prepare

26-Feb-04

¹ These properties are verified on a random basis.

³ Floratech methods.

² Official and recommended practices of the American Oil Chemists' Society.

⁴ These properties are verified on each lot at time of manufacture.

⁵ When stored in the original unopened container at or below 5°C.

This product is warranted to perform in accordance with specifications and to be free from defects for 12 months from the date of purchase, when stored in the original unopened container, and with proper handling and storage. Floratech's obligation is limited to replacement of the product and is in lieu of all other warranties, expressed or implied. In no event shall Floratech be responsible for any incidental or consequential damages. Fully detailed technical literature is available. The preceding data is provided for the convenience of the user and does not relieve the user of normal liability for inspection of material upon delivery or prior to actual use. Absence of microbial contamination (<100 CFU/g) is guaranteed - this guarantee does not apply to samples. No warranty of fitness for a particular purpose is made. Statements concerning the possible use of our product are not intended as recommendations to use our product in the infringement of any patent. This product contains no animal-derived ingredients and, therefore, cannot carry the Bovine Spongiform Encephalopathy (BSE) disease. This product contains no detectable 'trans' isomers. This product contains no ingredients derived from genetically modified organisms (GMO).