

# ROSEHIP OIL REFINED

## PRODUCT DATA SHEET



**ROSEHIP OIL REFINED** is extracted from Rosa Aff. Rubiginosa, a delicate rose which grows wild on the high mountains in Chile, and which is known locally as Rosa Mosqueta.

Textron's **ROSEHIP OIL REFINED** is a natural, cold pressed, refined vegetable oil.

**ROSEHIP OIL REFINED** contains around three-quarters essential fatty acids, oleic, linoleic and linolenic, which are needed for the synthesis of prostaglandins, cell membranes and tissue regeneration. **ROSEHIP OIL REFINED** also contains natural Tretinoin or Retinoic Acid (a Vitamin A derivative), which replenishes and helps rebuild skin tissue.

The unique properties of **ROSEHIP OIL** were discovered through scientific studies conducted at the Universities of Concepcion (Chile) and Missouri (USA). These studies showed that application of **ROSEHIP OIL** effectively helped in attenuating scars, wrinkles and stretch marks; in preventing premature aging and in regaining natural colour and tone.

### TECHNICAL DATA

<b>Appearance:</b>	Pale yellow oil with almost neutral odour.
<b>Acidity index:</b>	≤ 0.20
<b>Viscosity (Brookfield):</b>	77.0 cps
<b>Peroxide value:</b>	≤ 10.0
<b>Specific gravity:</b>	0.91 - 0.93 g/ml
<b>CAS No:</b>	84603-93-0
<b>Japan Code Number:</b>	510098

Fatty Acid	Composition
Oleic acid (Omega 9)	13 - 15 %
Linoleic acid (Omega 6)	40 - 55 %
Alpha-Linolenic acid (Omega 3)	25 - 35 %

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## APPLICATION

**ROSEHIP OIL REFINED** offers ease of spreading, great penetration and significant moisture retention. It is very effective in halting and even reversing the effects of sun radiation on the skin. In general, it is useful in all kinds of cell regeneration face treatments, pore reduction and acne treatments.

**ROSEHIP OIL REFINED** may be applied directly to the skin and hair. It may also be easily incorporated as an active ingredient or an ideal carrier in skin and hair care products. It is ideally suited for anti wrinkle and sun care products. The recommended dosage is between 3 and 10%.

## OIL STABILITY INDEX (OSI)

The Oil Stability Index (OSI) was determined using a Rancimat instrument. The rapidity of oxidation of an oil depends on the degree of unsaturation, the presence of antioxidants, and prior storage conditions. In the OSI analysis, the rate of oxidation is slow until resistance to oxidation is overcome. This time is known as the oxidation induction period and it is a tool to determine the useful life of the oil.

**ROSEHIP OIL REFINED OSI:** 4.04 hours (100 °C)

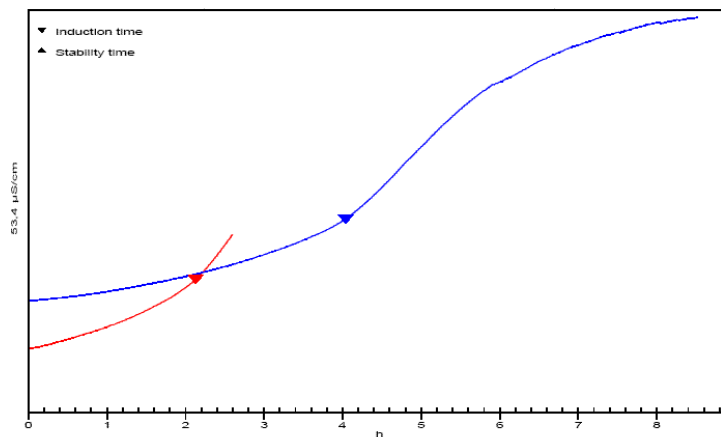
ISO 6886 (1996)  
Animal and vegetable fats and oils  
Determination of oxidation stability

### Conditions

Sample amount  $2.5 \pm 0.01$  g  
Temperature  $100^{\circ}\text{C} \pm 0.2^{\circ}\text{C}$   
Gas flow 20 L/h  
Vessel: 50 mL distilled water  
Evaluation Conductivity  
Induction time (tangent method)

Blue: determination at 100 °C

Red: determination at 110 °C



Note: the OSI for Rosehip Oil may be extended by the addition of antioxidants.

**INCI Name:** Rosa Canina (Rosehip) Fruit Oil

**ROSEHIP OIL REFINED****CODE** 008086      **SPECIFICATION**      **Nº** 00808602

<b>PARAMETERS</b>	<b>SPECIFICATIONS</b>	<b>EDITION - 03/11/2005</b>
Description	A clear oil, free from foreign matter and immiscible with water.	
Colour	Yellow to pale yellow.	
Acid Value	max. 1.0 mg KOH/g oil	
Peroxide Value	max.5 meq. O <sub>2</sub> /Kg	
Iodine Value	150 - 194	
<b>CROMATOGRAPHY</b>		
Palmitic	3.0 - 8.0 %	
Stearic	1.0 - 3.0 %	
Oleic	12.5 - 15.0 %	
Linoleic	41.0 - 51.0 %	
Linolenic	28.0 - 38.0 %	

**PACKING****REMARKS**

KEEP FULL AND WELL CLOSED IN A DRY PLACE AND AWAY FROM LIGHT