

ROSEHIP OIL VIRGIN

PRODUCT DATA SHEET



ROSEHIP OIL VIRGIN 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 VIRGIN** is a natural, cold pressed, virgin vegetable oil.

ROSEHIP OIL VIRGIN 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 VIRGIN** also contains natural Tretinoin or Retinoic Acid (Vitamin A derivative), which replenishes and helps rebuild skin tissue and natural anti-oxidants (Vitamin E).

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.

Aging, when related to skin, can be divided into two processes: intrinsic and photo-aging. Intrinsic refers to endogenous and genetic factors which are almost impossible to halt or to reverse. Photo-aging refers to the multiple adverse effects on all parts of the skin induced by excessive exposure to sun radiation. This condition is also called Dermotoheliosis and can be reversible. Photo-aging is characterized by wrinkled, yellowed, lax, rough, leathery, inelastic, and/or coarse skin with spotted hyper or hypo-pigmentation.

ROSEHIP OIL is very effective in halting and even reversing the effects produced by the sun on the skin. Significant changes should be noticed after the third week of continuous application. In extreme cases of photo-aging, a more generous application should be used at night and during the day. It may take four months or more for the total disappearance of superficial wrinkles and significant dissipation of hyper-pigmented spots.

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Changes produced on skin by the action of the sun, i.e., photoaging (dermatoheliosis) are very common in all countries of warm climate. Exposure to sun causes important morphological changes in skin. Dermatoheliosis appears in different ways and varying intensity ranging from surface wrinkles, active keratosis and variation in the distribution of the melanin granules.

Numerous studies on **ROSEHIP OIL** have been completed at various universities in Chile and in other countries. Although the emphasis of these studies has been on the clinical and therapeutic use of **ROSEHIP OIL**, the findings from the University of Concepcion opened the door for its use in the cosmetic industry.

TECHNICAL DATA

Appearance:	Orange oil with a characteristic mild, pleasant odour.
Peroxide value:	≤ 8.0 meq O ₂ /Kg oil
Specific gravity:	0.91 - 0.93 g/ml
CAS No:	84603-93-0

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

ROSEHIP OIL VIRGIN as all virgin oils becomes cloudy at low temperatures

APPLICATION



ROSEHIP OIL VIRGIN 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 VIRGIN 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%.

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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 VIRGIN OSI: 5.35 hours (100 °C)

ISO 6886 (1996)

Animal and vegetable fats and oils
 Determination of oxidation stability
 Conditions

Sample amount 2.5 ± 0.01 g

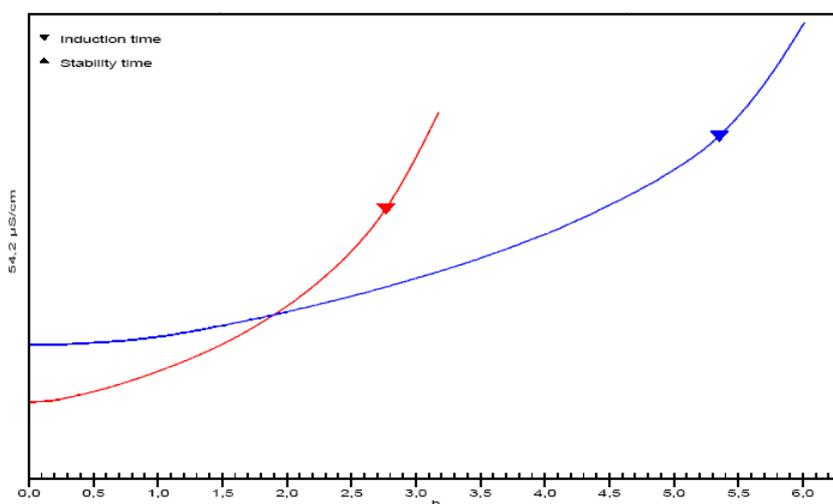
Temperature $100^{\circ}\text{C} \pm 0.2^{\circ}\text{C}$

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

ROSE HIP OIL VIRGIN**CODE** 008089 **SPECIFICATION** **Nº** 00808906

PARAMETERS	SPECIFICATIONS	EDITION - 07/02/2011
Appearance	Clear orange red liquid, with characteristic odour	
Acid value	Max. 2.0 mg KOH/100g	
Peroxide value (meq/kg at time of pack, 20°C) (PE 2.5.5)	Max. 8 meq O2/Kg oil	
Iodine value	165 - 195	
Saponification value	175 - 195	
FATTY ACIDS		
C16:0	3.0 - 5.0 %	
C18:0	1.0 - 3.0 %	
C18:1	13.0 - 16.0 %	
C18:2	41.0 - 49.0 %	
C18:3	29.0 - 36.0 %	

PACKING**REMARKS**

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