

SESAME OIL

PRODUCT DATA SHEET



SESAME OIL is a Refined Vegetable Oil from Sesame seeds which are unusually high in oil, around 50% of seed weight. Sesame is an oilseed and is one of the oldest cultivated plants in the world, used by many ancient cultures.

SESAME OIL is a limpid, pale yellow liquid, having a pleasant grain-like odour. This oil is high in polyunsaturated fats. The oil contains about 42 % Oleic and 44 % Linoleic acid (Omega 6), rich in vitamins A, B and E as well as in many minerals. The oil contains powerful antioxidants called sesamol and sesamol, believed to promote cell integrity and the healthy function of body tissues. In the tissues beneath the skin **SESAME OIL** will neutralize oxygen radicals.

SESAME OIL possesses excellent emollient properties. It is highly hydrating and nourishing due to the Omega 6 content and it penetrates the skin quickly, detoxifying even the deepest tissue layers.

SESAME OIL is a natural antibacterial, antiviral and anti-inflammatory agent, and for these reasons it has been used to treat acne. **SESAME OIL** is ideal for optimum skin care due to its outstanding performance in all kinds of cosmetic products.

TECHNICAL DATA

Appearance: Pale yellow, oily liquid, with slight odour
Acidity index: ≤ 0.50
Peroxide value: ≤ 5.0
Specific gravity: 0.90 - 0.92 g/ml

| Fatty Acid | Composition |
|----------------|---------------|
| Palmitic acid | 7.9 - 12 % |
| Stearic acid | 3.9 - 6.7 % |
| Oleic acid | 35.9 - 43.7 % |
| Linoleic acid | 38.6 - 48.9 % |
| Linolenic acid | Max. 0.6 % |

SESAME OIL

OIL STABILITY INDEX (OSI)

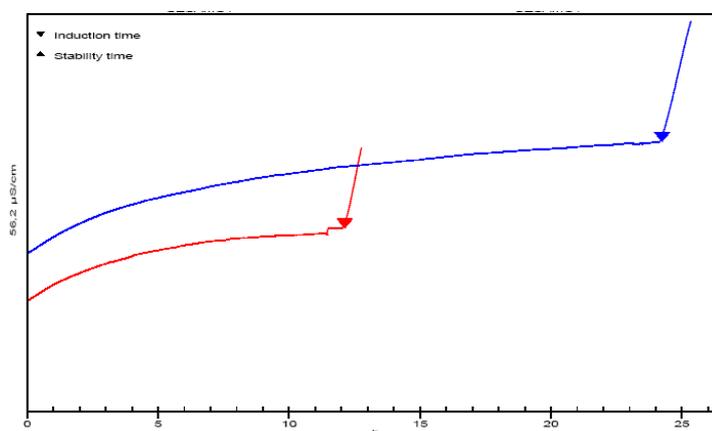
The Oil Stability Index (OSI) was determined using a Rancimat instrument. The rapidity of oxidation of an oil depends on the degree of unsaturation, the presence of antioxidants, and prior storage conditions. In the OSI analysis, the rate of oxidation is slow until resistance to oxidation is overcome.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

SESAME OIL OSI: 24.2 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



APPLICATION

In many traditional Middle-East societies **SESAME OIL** has been used to help treat teen acne and control eruptions, as well as keep the skin soft and supple and tighten facial skin. Naturopathic medicine claims that topic oil applications effectively alleviated depression and fatigue, rejuvenated individuals and increased stamina.

SESAME OIL may be directly applied to the skin and hair for care and protection leaving no greasy feeling. It may also be easily formulated as an active ingredient in hair care products or in general cosmetic formulations, including suncare since it is a natural UV protector. The recommended dosage is between 1 and 10 %.

SESAME OIL can also be used for massage and health treatments of the body. It is used to warm and stimulate the skin and underlying tissue, therefore it can be thought of as detoxifying. Its warming effects enhance the circulation.

TEXTRON S SESAME OIL complies with the following pharmacopoeias:
Ph.Eur.5,2005; BP 2007; USP 30-NF 25

INCI Name: Sesamum Indicum (Sesame) Seed Oil.

SESAME OIL REFINED & WINTERIZED EP, USP**CODE** 008267 **SPECIFICATION** **Nº** 00826706 **INT. STANDARD - PH.EUR.7, 2011, BP 2012.**

| PARAMETERS | SPECIFICATIONS | EDITION - 25/11/2011 |
|-----------------------|-----------------------|-----------------------------|
| Density 20°C | 0.910 - 0.930 g/ml | |
| Acid Value | max.1mg KOH/g | |
| Refractive Index | 1.468 - 1.478 | |
| Iodine Value | 100 - 120 | |
| Saponification Value | 185 - 200 | |
| Insaponifiable matter | Max. 2.0 % | |
| CHROMATOGRAPHY | | |
| Palmitic Acid | 6.0 - 15.0 % | |
| Stearic Acid | 3.0 - 8.0 % | |
| Oleic Acid | 35.0 - 50.0 % | |
| Linoleic Acid | 35.0 - 50.0% | |

PACKING**REMARKS**

Keep well closed in a fresh and dry place away from direct sunlight.