



## OILNAT RICE BRAN

### PRODUCT DATA SHEET



**OILNAT RICE BRAN** is extracted from the germ and inner husk of fresh rice bran.

Textron's **OILNAT RICE BRAN** is a natural, refined vegetable oil that has relatively high amounts of Vitamin E.

**OILNAT RICE BRAN** is high in fatty acids and unsaponifiabiles and contains about 1.5% of gamma-oryzanol. The high antioxidant property of gamma-oryzanol has been widely recognized. Studies have shown several

physiological effects related to gamma-oryzanol and related OILNAT RICE BRAN components. These include its ability to reduce plasma cholesterol<sup>1</sup>.

**OILNAT RICE BRAN** contains significant levels (approximately 500 ppm) of tocotrienols<sup>2</sup>. These occur in at least four known forms and are similar to the tocopherols in chemical structure. They belong to the vitamin E family and are powerful natural antioxidants.

### TECHNICAL DATA

<b>Appearance:</b>	Clear oil
<b>Saponification value:</b>	185 - 195
<b>Iodine value:</b>	92 - 115
<b>Acid value:</b>	max. 0.6
<b>Specific gravity:</b>	0.916 – 0.922 g/ml

Fatty Acid	Composition
Linoleic acid (Omega 6)	29 - 45 %
Alpha-Linolenic acid (Omega 3)	Max. 3%
Palmitic acid	12 - 22 %

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<sup>1</sup> Lichenstein et al., *Arteriosclerosis and Thrombosis*, Vol 14, 549-556, (1994)

<sup>2</sup> Eitenmiller, R. R. 1997. *Vitamin E Content of Fats and Oils: Nutritional Implications. Food Technol.* 51(5): 78-81.

# OILNAT RICE BRAN



## APPLICATION

**OILNAT RICE BRAN** can be used in all types of products for softening and moisturizing properties. It is an extremely gentle oil making it ideal for sensitive, mature or delicate skin where additional moisturization is desired.

**OILNAT RICE BRAN** is extremely effective in keeping skin smooth which is thought to be a combined function of the many components of the oil.

Gamma oryzanol in **OILNAT RICE BRAN** is a component that can impede the progress of melanin pigmentation by restraining the erythema activity of tyrosinase. Because of this property, **OILNAT RICE BRAN** can be used in any type of skin or hair sunscreen products.

**OILNAT RICE BRAN** can be incorporated into lipsticks, providing lip conditioning and strong mold stability, and into nail polishes, providing smooth spreadability to the formula.

**OILNAT RICE BRAN** 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 sun care products. The recommended dosage is between 3 and 10%.

**INCI Name:** INCI Name: Oryza Sativa (Rice) Bran Oil