

ORYZA SQUALANE

Cosmetic Agents for Moisturizing

Rice has been widely grown in the Southeast Asia, not only as a chief crop but also as acts an integral part of traditional culture and lifestyle of some Asian countries. Especially, this oil has an important role, the only oil used domestic materials, has been used as foods and cosmetics. In the course of our investigation on rice bran and germ for a long time, some products were developed by containing in it, and have been used as medicines, cosmetics, health foods, and food additives. Recently, rice squalene were extracted from rice bran and rice germ, and produced by Oryza Oil & Fat Chemical Co., Ltd named as ORYZA SQUALANE.

1. Squalane

Squalane, a saturated hydrocarbon ($C_{30}H_{62}$), is obtained by hydrogenation of squalene which have been used as cosmetics for moisturize. At present, squalane is used as cosmetics, medicines and sometimes used with fibers.

Squalene, a material for squalane, is contained shark liver oil, rice, olive, soybean, and so on. Until now it was only obtained from shark liver oil, which can contain a lot of squalene than vegetable oil. However, it is well known that extensive fishing has reduced quantity of sharks in some areas and led to occasional shortages. Moreover, there is a growing concern about the environment and a higher ecological sensitivity among consumers. In addition, there are some problems, in the following, pollution in marine animals by dioxin and agricultural chemical, shark liver oil include pristane.

6. Packaging

Filling nitrogen

15kg: Can

7. Storing Method

Store in dark place avoid heat and humidity.



PRODUCT STANDARD

PRODUCT NAME

ORYZA SQUALANE

This product is squalane that be obtained by distillation and hydrogenation of squalene from rice bran oil. Quantity of squalane is more than 85.0%.

<u>Appearance</u>	This product is colorless and odorless liquid.
<u>Certification Test</u>	Dissolve 0.4g of this product with n-hexane in a 100 ml volumetric flask, and add n-hexane to volume (solution A). On the other hands, dissolve 0.4g of squalane with n-hexane in a 100 ml volumetric flask, and add n-hexane to volume (solution B). Analysis is performed by gas chromatography (GC). Use 1.0 μ l of solution A and B, retention time of A solution shows same retention time of B solution.
<u>Content (GC)</u>	85.0% minimum
<u>Acid Value</u>	Max. 0.5
<u>Saponification Value</u>	Max. 2.0
<u>Iodine Value</u>	Max. 2.0
<u>Gravity</u>	$d_{20}^{20} = 0.808 \sim 0.829$
<u>Refractive Index</u>	$n_D^{20} = 1.450 \sim 1.460$
<u>Ignition Residue</u>	Max. 0.1% (5g)
<u>Purity Test</u>	
(1) Heavy Metals	Max. 10ppm
(2) Nickel	After 5.0g of this product is dissolved in 5 ml of diluted hydrochloric acid for 1 minute, ammonia liquid is added to the water layer to be alkalified. Then, 50 mg of lead dioxide, drop of sodium hydroxide, and 1 ml of dimethylglyoxime solution are added to the water layer; it does not occur coloring.
(3) Arsenic	Max. 1ppm

We apply The Japanese Standards of Cosmetic Ingredients and Japan Cosmetic Ingredient Codex in this standard and examination method mentioned above.

(NOTES) This product is applicable to JIC 42-520576.



ORYZA OIL & FAT CHEMICAL CO., LTD., striving for the development of the new functional food materials to promote your health.

- n **From product planning to OEM** - For any additional information or assistance, please contact :

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* The contents of this catalogue may be changed without prior notice.