



Carotino Oleins and Super Oleins

The Carotino Group produces a range of palm oleins for use in a wide variety of food and non-food manufacturing processes. Oleins are derived from palm oil using advanced molecular distillation and fractionation processes and have superior properties to the original oil. Carotino oleins are naturally reddish in colour, which makes them ideal as colourants.

Products in the Carotino range:
 NVROL – Natural Vitamin Rich Olein (IV level 56-60)
 NVRSO – Natural Vitamin Rich Super Olein (IV level 60-68)

Carotino oleins can be used as natural colourants and also as bakery fats and shortening. They are odourless and free from cholesterol and trans fats. Typically, palm oleins are used as a partial replacement for some of the product's usual oil content – normally around 3 to 5% - and can be used in many food and non-food applications.

Typical food uses:

- Bakery products
- Dough
- Biscuits
- Cake mixes
- Confectionary
- Snack foods (eg. crisps)
- Noodles
- Margarine
- Curry or pasta sauce

Typical non-food uses:

- Vitamin supplements
- Neutraceuticals
- Diet supplements
- Athletic supplements
- Face/body creams
- Suntan lotions
- Cosmetics
- Moisturisers



Benefits of oleins in manufacturing

Palm oleins contain concentrated levels of anti-oxidant alpha and beta carotenes (pro-Vitamin A) and tocopherols and tocotrienols (Vitamin E). Their high carotene content makes them ideal as natural colourants. They can also be used as bakery fats and shortening. Under EU legislation, oleins are classed as ingredients, so they don't have to be listed as 'e-numbers' - even if their primary use is as a colourant.

Environmental sustainability

Like all Carotino products, the oleins are ethically sourced from environmentally sustainable plantations and are produced in factories which uphold the highest international production standards. Carotino Group products are RSPO certified.

Technical information

Natural Vitamin Rich Olein (NVROL)

Parameters	Specifications	Typical
Free Fatty Acid, %	0.1 max	0.065
Moisture, %	0.1 max	0.03
Iodine Value	56 min	58.1
Carotenes (Pro-Vitamin A) parts per million	500 min	560
Tocopherols & Tocotrienols (Vitamin E) ppm	800 min	958

Natural Vitamin Rich Super Olein (NVRSO)

Parameters	Specifications	Typical
Free Fatty Acid, %	0.1 max	0.068
Moisture, %	0.1 max	0.03
Iodine Value	60 min	62.2
Carotenes (Pro-Vitamin A) parts per million	500 min	560
Tocopherols & Tocotrienols (Vitamin E) ppm	800 min	1012



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