

ТОВ «ДЕЛЬТА ВІЛМАР УКРАЇНА»

Version: 01-02-2024

PRODUCT SPECIFICATION №88/1

Product: High oleic sunflower oil refined deodorized winterized mark P

Normative document: DSTU 9127:2021

Application: for direct consumption in food, for selling in markets.

Composition: High oleic sunflower oil refined deodorized winterized mark P.

1. Organoleptic characteristic:

| Name of indicator | Name of indicator Description | | Periodicity of control |
|-------------------|-----------------------------------|-----------|------------------------|
| Taste and odor | Taste of impersonal oil, odorless | DSTU 8842 | Each batch |
| Transparency | Transparent, without any sediment | DSTU 8842 | Each batch |

2. Physicochemical characteristics:

| Characteristic, unit | Data | Method of control* | Periodicity of control |
|--|---------|--------------------|------------------------|
| Moisture and volatile matters, %, max | 0,1 | DSTU ISO 662 | Each batch |
| Iodine value, gI2/100g | 78-90 | DSTU EN ISO 3961 | Each batch |
| Color, mg I ₂ , max | 10,0 | DSTU 4568 | Each batch |
| Acid value, mg KOH/g, max | 0,15 | DSTU 4350 | Each batch |
| Peroxide value, ½ O mmol/kg, max: - in production | 1,0 | DSTU EN ISO 3960 | Each batch |
| Mass fraction of trans-isomers content, %, max | 1,0 | DSTU ISO 15304 | Each batch |
| Mass fraction of phosphorus-containing substances, %, not more than: - in terms of stearoleolecithin | Absence | DSTU 7082 | Each batch |
| Mass fraction of insoluble impurities, %, max | Absence | DSTU EN ISO 663 | Each batch |

Note 1. According to DSTU 9127:2021 «Peroxide value» at the end of the shelf life is not more – 10,0 ½ mmol/kg.

^{**} In the case of oil production for export, the rate of "Iodine number" is regulated according to CODEX STAN 210-1999.

^{***} Microbiological indicators are checked according to the client's requirements based on the contractual relationship and the client's specification.

^{*} Equivalent method maybe used at different production sites



3. Nutritious value per 100g of product:

| Characteristic unit | Data | Target value |
|---|-----------|--------------|
| Characteristic, unit | 100 g | 100 g |
| Fats, g, of which: | ≥99,9 | 99,9 |
| saturated fatty acids | 6,2-13,9 | 8 |
| mono-unsaturated fatty acids | 75,1-91,4 | 83 |
| poly-unsaturated fatty acids | 2,1-17,3 | 9 |
| oleic acid, not less than | 751 | 801 |
| Carbohydrates, g, of which: | 0 | 0 |
| sugars | 0 | 0 |
| Proteins, g | 0 | 0 |
| Salt, g | 0 | 0 |
| Energy value (calories) per 100 g of product: | | |
| кЈ | 3696 | 3696 |
| kcal | 899 | 899 |

¹ The "Oleic acid" indicator may differ from the value indicated in Table 3 depending on the agreed specification to the contract with the client.

4. Allergen list:

| Ingredients containing Allergens | Present in the product supplied (√-yes / X-no) | Present on the site (√-yes / X-no) | Control measures where allergen is present to prevent cross contamination |
|---|--|------------------------------------|---|
| Cereals containing gluten and products there of | X | X | - |
| Crustaceans and products there of | X | X | - |
| Eggs and products there of | X | X | - |
| Fishes and products there of | X | X | - |
| Peanuts and products there of | X | X | |
| Soya and products there of | X | X | - |
| Nuts and products there of | X | X | - |
| Milk and products there of (including lactose) | X | X | - |
| Celery and products there of | X | X | - |
| Mustard and products there of | X | X | - |
| Sesame seeds and products there of | X | X | - |
| Sulphur dioxide and sulphites at concentrations of more than 10 mg/kg or 10 mg/litre expressed as SO ₂ (E220-E228) | X | X | - |
| Lupin and products there of | X | X | - |
| Molluscs and products there of | X | X | - |

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5. Safety indicators***:

| Characteristic, unit | Data | Method of control | Periodicity of control | |
|---|-----------------|--|---------------------------------------|--|
| Toxic elements, mg/kg, max: | | | | |
| Lead | 0,1 | | | |
| Mercury | 0,03 | | Once in 3 months in ready products | |
| Arsenic | 0,1 | According to the methods | | |
| Iron | 5,0 | approved in the established order | | |
| Copper | 0,4 | | | |
| Cadmium | 0,05 | | Once a year in ready products | |
| Pesticides, mg/kg, max: | | | , , , , , , , , , , , , , , , , , , , | |
| Hexachlorocyclohexane (γ-HCCH) | 0,05 | | | |
| DDT | 0,1 | According to the methods | Once a year in raw material | |
| Heptachlor | not allowed | approved in the established order | once a year in raw material | |
| Mycotoxins, μg/kg, max: | | | | |
| Aflatoxine B1 | 2,0 | According to the methods approved in the established order | Twice a year in raw material | |
| Radionuclides, Bq/kg, max: | | | | |
| Cesium-137 | 100 | According to the methods | _ | |
| Strontium-90 | 30 | approved in the established order | Once a year in ready products | |
| Dioxins and PCB's: | • | | | |
| sum of dioxins (WHO-PCDD/F-TEQ), pg/g fat | 0,75 | | Once a year in ready products | |
| sum of dioxins and dioxin-like PCB (WHO-PCDD/F-TEQ), pg/g fat, | 1,25 | According to the methods approved in the established order | | |
| sum of PCB28, PCB52, PCB101, PCB138, PCB153 и PCB180 (ICES-6), ng/g fat, max | 40 | | | |
| Polycyclic aromatic hydrocarbons, μg /kg, 1 | max: | | | |
| Benzo(a)pyrene | 2,0 | According to the methods | | |
| Sum Benzo(a)pyrene, benz(a)anthracene, benzo(b)fluoranthene and chrysene | 10,0 | approved in the established order | Once a year in ready products | |
| Melamine and its structural analogues, mg/ | kg, max: | | | |
| Melamine | 2,5 | According to the methods approved in the established order | Once a year in ready products | |
| Natural plant toxins, g/kg max: | T | | | |
| Erucic acid including erucic acid bound in a | 20,0 | According to the methods approved in the established order | Once a year in ready products | |
| Glycidyl esters of fatty acids in terms of gly | cidol, μg/kg, m | ax: | | |
| Content of glycidol fatty acid esters | 1000 | According to the methods approved in the established order | During the production process | |

^{****}As required to REGULATION (EC) № 1881/2006, establishing maximum levels of certain contaminants in food products.

Additional Information: High oleic sunflower oil refined deodorized winterized mark P during production is not subject to the influence of ionizing radiation, raw materials and ingredients of animal origin are not using.

According to Annex 1 to the Law of Ukraine "On Consumer Information on Food" dated 06.12.2018 №2639-VIII, the product is not an allergen.

Market operator – LLC «Delta Wilmar Ukraine»; production address - 6, Industrialna Str., Yuzhne, Odesa region, Ukraine, 65481.

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Type of activity to be carried out with the use of capacity - production of food products, the ingredients of which are including products of plant origin and/or processed products of animal origin and assigned to this capacity personal registration number r-UA-15-29-57.

Product doesn't contain GMO.

Packing: The following packing options are available:

- 0,85L PET bottle with press-on type oil cap (12 pcs per carton box)
- 0,99L PET bottle with press-on type oil cap (12 pcs per carton box)
- 1L PET bottle with press-on type oil cap (12 pcs per carton box)
- 1,8L PET bottle with side handle and screw type cap (9 pcs per carton box)
- 2L PET bottle with press-on type oil cap (6 pcs per carton box)
- 3L PET bottle with top handle and screw type cap (4 pcs per carton box)
- 5L PET bottle with top handle and screw type cap (4 pcs per carton box)
- the product is packed in a corrugated box with a plastic bag with a neck and a lid, with a net weight of 10kg, 20 kg;
 - truck, flexitank, vessel.

Shelf life:

It is better to consume until the end of the period from the date of production, at temperature: from $0 \, ^{\circ}\text{C}$ to $+30 \, ^{\circ}\text{C}$ incl. -24 months, store in closed darkened rooms.

Shelf life for bulk products:

It is better to consume until the end of the period from the date of production, at temperature: from 0 °C to +30 °C incl. -12 months.

Transportation: According to the conditions of international rules for this type of product.

Remarks: The information is presented based on Standard Certificate of Analysis of product only for your consideration.

Final specification for product is subject to Contractual Agreement.

| LLC «Delta Wilmar Ukraine» | Position | First name/Last name | Signature | Date |
|----------------------------|--|----------------------|-----------|------------|
| Developed: | Technologist | Liliia CHYSTIAK | Days | 01.02.2024 |
| Agreed: | Chief technologist | Svitlana KULINICH | CHIL | 01,02.24 |
| | Leading manager of work with key clients | Anastasia SINITSYNA | Fen | 01.02.24 |
| | Head of Laboratory | Olha DEYNEKA | Deel | 01.02.24 |
| | | | | |

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