



# **NATURLAND STANDARDS**

## **PROCESSING**

Supplement for edible fats and oils

Version 05/2023

## **X. Processing standards for edible fats and oils**

The processing standards for edible fats and oils are supplementary to the Naturland standards "Processing - General Section", including the appendices.

These are likewise binding on all processing standards for specific groups of products and consequently must be observed in processing edible fats and oils.

### **1. Area of application**

The chapter of the standards covering edible fats and oils covers vegetable fats, animal fats, vegetable oils and animal oils including mixtures of these.

### **2. Ingredients of agricultural non-agricultural origin**

All ingredients of agricultural origin that are selected following the list of priorities, Naturland standard (see Part C. VI. 4.1) are permitted.

Besides this, the following regulations apply:

#### **2.1 Flavouring**

Organic flavouring extracts for use in the production of infused oils (application must be made to Naturland for permission to use them).

#### **2.2 Water and salt**

- water of drinking water quality
- table salt, iodised salt (calcium carbonate (E 170)) is permitted as anti-caking agent)

#### **2.3 Cultures of micro-organisms**

The use of micro-organisms is prohibited.

#### **2.4 Enzymes**

The use of enzymes is prohibited.

#### **2.5 Food additives**

Native, unmodified lecithin (E 322) from organic production (only for the production of margarine and marine fat)

#### **2.6 Mineral nutrients, trace elements and vitamins**

The use of mineral nutrients, trace elements and vitamins is prohibited.

#### **2.7 Permissible processing additives**

- Filtration equipment must be free of asbestos, such as paper or cotton filters, diatomaceous earth, perlite
- nitrogen (N<sub>2</sub>) (E 941), argon (Ar) (E 938)
- ethyl alcohol (only permitted to extract oil from raw materials with low oil content (5- 10 %))
- only for oils and fats for further processing:
  - activated carbon
  - bentonite
  - citric acid (E 330)

### **3. Permissible processing methods**

#### **3.1 Permissible processing methods for vegetable fats and oils**

- All common methods for cleaning, peeling and preparation of raw materials, whereby the conditioning/preheating proceeds only up to the maximum outlet temperature.
- mechanical presses with an outlet temperature of 60° C max.
- recommended limits for the max. outlet temperatures for specific oils:
  - olive oil: 40° C
  - safflower oil and pumpkin seed oil: 50° C

- filtration, decantation, centrifugation
- emulsification, pasteurisation and crystallisation for the production of margarine and marinade fat
- winterisation
- only for oils and fats for further processing:
  - degumming
  - decolourisation/bleaching
  - water vapour treatment up to 260° C
- only for production of cooking oil for end-consumers:
  - water vapour treatment up to 160° C

### 3.2 Permissible processing methods for animal fats

- smelting

### 4. Prohibited processing methods

- leaching with organic chemical solvents
- degumming<sup>1</sup>
- deacidification
- bleaching/decolourising<sup>2</sup>
- deodorization<sup>3</sup>
- chemical modification (hydrogenation/hardening, transesterification)

### 5. Labelling

Edible oils that have been subject to a refining stage or treatment with steam as well may not be labelled as “native”. Oils extracted with aid of ethyl alcohol may also not be labelled as “native”.

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<sup>1</sup> with the exception of oils and fats used for further processing

<sup>2</sup> with the exception of oils and fats used for further processing

<sup>3</sup> with the exception of water vapour treatment up to 160° C for the production of cooking oil for end-users or up to 260° C for oils and fats for further processing

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