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Sunflower seed

葵花籽

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Sunflower seed

1 Scope

This document defines the relevant terms of sunflower seeds, specifies the classification, quality requirements, inspection rules, labeling, packaging, storage and transportation, etc., and describes the inspection methods.

This document applies to the acquisition, storage, transportation, trade, and processing of sunflower seeds.

2 Normative references

The following documents contain the provisions which, through normative reference in this document, constitute the essential provisions of this document. For the dated referenced documents, only the versions with the indicated dates are applicable to this document; for the undated referenced documents, only the latest version (including all the amendments) is applicable to this document.

GB 5009.3 National food safety standard - Determination of moisture in foods

GB/T 5490 Inspection of grain and oils - General rules

GB/T 5491 Inspection of grain and oilseeds - Methods for sampling and sample reduction

GB/T 5492 Inspection of grain and oils - Identification of colour, odour and taste of grain and oilseeds

GB/T 5494 Inspection of grain and oils - Determination of foreign matter and unsound kernels of grain and oilseeds

GB/T 5499 Inspection of grain and oilseeds - Determination of pure kernel yield of unhulled oilseeds

GB/T 8946 General technical requirements of plastic woven sack

GB/T 14488.1 Oilseeds - Determination of oil content

GB/T 24904 Gunny bags for packing of grain

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 sunflower seed

The seeds of *Helianthus* Linn. in the Asteraceae family.

3.2 pure kernel ratio

The proportion of sunflower kernels of sunflower seeds in the mass fraction of the sample, of which the unsound kernels are calculated as half of their number.

NOTE: Unsound kernels refer to sunflower kernels that are damaged but still have use value, including broken kernels, sprouted kernels, moldy kernels, injured kernels, spotted kernels, etc. Broken kernels refer to the seeds that are flattened and damaged and their kernels are broken; sprouted kernels refer to the seeds whose buds or radicles break through the seed coats; moldy kernels refer to the seeds whose surfaces are moldy; injured kernels refer to the seeds that are damaged by worms and their kernels are injured; spotted kernels refer to the seeds with diseased spots on kernels.

3.3 oil content

The proportion of the crude fat of sunflower seeds in the mass fraction (in dry basis) of the sample.

3.4 useless material

Substances other than sunflower seeds, and sunflower seeds of no use value.

NOTE: The useless materials include throughs, inorganic impurities, and organic impurities. Throughs refer to the material that can pass through a sieve with 3.5 mm diameter round holes; inorganic impurities refer to minerals (such as sand, cinder, bricks and tiles, soil) and other inorganic substances; organic impurities refer to useless sunflower seeds, heterogeneous oilseeds, grains, and other organic matter.

4 Categories

According to the use, sunflower seeds are divided into two categories: edible sunflower seeds and sunflower seeds for oil.

NOTE: Sunflower seeds for oil refer to the seeds of oilseed sunflower (oil sunflower). The seeds are small and plump, the shell is thin and black, and the oil content is high.

It shall be carried out according to GB/T 5490.

7.2 Inspection batch

The sunflower seeds of the same type, the same origin, the same harvest year, the same transport unit, and the same storage unit are regarded as one batch.

7.3 Grading rules

7.3.1 The pure kernel ratio and oil content shall meet the corresponding grade requirements in Table 1 and Table 2, and other indexes shall meet the requirements of relevant national regulations.

7.3.2 When the grading index fails to meet the requirements, it shall be downgraded to the next grade. Products whose grading indexes reach the third grade, but other indexes do not meet the requirements, are classified as off-grade.

8 Labeling

The product name, grade, place of origin, year of harvest, and country of production shall be marked on the packaging or accompanying documents.

9 Packaging, storage, and transportation

9.1 Packaging

The packaging shall be clean, firm, undamaged, tightly sealed, and strong, and shall not leak; it shall not bring pollution and abnormal smell to the product. When gunny bags are used for packaging, the packaging shall comply with the regulations of GB/T 24904; when plastic woven sacks are used for packaging, the packaging shall comply with the regulations of GB/T 8946.

9.2 Storage

Sunflower seeds shall be stored in a clean, dry, rain-proof, moisture-proof, insect-proof, rodent-proof, and odor-free warehouse, and shall not be mixed with toxic and harmful substances that may pollute sunflower seeds or substances with high water content during storage.

9.3 Transportation

The means of transportation shall be clean and be able to prevent sun exposure, rain, moisture, pollution, and label peeling-off, so as to reduce transportation loss; sunflower seeds shall not be mixed with corrosive, toxic, or odorous substances for transportation.

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