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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 11764-2022

Replacing GB/T 11764-2008

Sunflower seed

葵花籽

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1 Scope

GB/T 11764-2022 is the Chinese national standard on sunflower seed, in the field of food technology. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 30 December 2022 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 July 2023. Classification: ICS 67.200.20, CCS B33. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

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.