

**§ 810.1603**

**7 CFR Ch. VIII (1-1-05 Edition)**

(d) *Heat-damaged kernels.* Soybeans and pieces of soybeans that are materially discolored and damaged by heat.

(e) *Purple mottled or stained.* Soybeans that are discolored by the growth of a fungus; or by dirt; or by a dirt-like substance(s) including nontoxic inoculants; or by other nontoxic substances.

(f) *Sieve—<sup>8</sup>/<sub>64</sub> round-hole sieve.* A metal sieve 0.032 inch thick perforated with round holes 0.125 (<sup>5</sup>/<sub>64</sub>) inch in diameter.

(g) *Soybeans of other colors.* Soybeans that have green, black, brown, or bicolored seed coats. Soybeans that have green seed coats will also be green in cross section. Bicolored soybeans will have seed coats of two colors, one of which is brown or black, and the brown or black color covers 50 percent of the seed coats. The hilum of a soybean is

not considered a part of the seed coat for this determination.

(h) *Splits.* Soybeans with more than 1/4 of the bean removed and that are not damaged.

PRINCIPLES GOVERNING THE APPLICATION OF STANDARDS

**§ 810.1603 Basis of determination.**

Each determination of class, heat-damaged kernels, damaged kernels, splits, and soybeans of other colors is made on the basis of the grain when free from foreign material. Other determinations not specifically provided for under the general provisions are made on the basis of the grain as a whole.

GRADES AND GRADE REQUIREMENTS

**§ 810.1604 Grades and grade requirements for soybeans.**

Grading factors	Grades U.S. Nos.			
	1	2	3	4 - -s4
<b>Minimum pound limits of:</b>				
Minimum test weight per bushel .....	56.0	54.0	52.0	49.0
<b>Maximum percent limits of:</b>				
Damaged kernels:				
Heat (part of total) .....	0.2	0.5	1.0	3.0
Total .....	2.0	3.0	5.0	8.0
Foreign material .....	1.0	2.0	3.0	5.0
Splits .....	10.0	20.0	30.0	40.0
Soybeans of other colors <sup>1</sup> .....	1.0	2.0	5.0	10.0
<b>Maximum count limits of:</b>				
Other material:				
Animal filth .....	9	9	9	9
Castor beans .....	1	1	1	1
Crotalaria seeds .....	2	2	2	2
Glass .....	0	0	0	0
Stones <sup>2</sup> .....	3	3	3	3
Unknown foreign substance .....	3	3	3	3
Total <sup>3</sup> .....	10	10	10	10

U.S. Sample grade Soybeans that:

- (a) Do not meet the requirements for U.S. Nos. 1, 2, 3, or 4; or
- (b) Have a musty, sour, or commercially objectionable foreign odor (except garlic odor); or
- (c) Are heating or of distinctly low quality.

<sup>1</sup> Disregard for Mixed soybeans.

<sup>2</sup> In addition to the maximum count limit, stones must exceed 0.1 percent of the sample weight.

<sup>3</sup> Includes any combination of animal filth, castor beans, crotalaria seeds, glass, stones, and unknown foreign substances. The weight of stones is not applicable for total other material.

[59 FR 10573, Mar. 7, 1994]

SPECIAL GRADES AND SPECIAL GRADE REQUIREMENTS

§ 810.1605 **Special grades and special grade requirements.**

(a) *Garlicky soybeans.* Soybeans that contain 5 or more green garlic bulblets or an equivalent quantity of dry or partly dry bulblets in a 1,000 gram portion.

(b) *Purple mottled or stained soybeans.* Soybeans with pink or purple seed coats as determined on a portion of approximately 400 grams with the use of an FGIS Interpretive Line Photograph.

[52 FR 24418, June 30, 1987, as amended at 52 FR 24441, June 30, 1987; 59 FR 10573, Mar. 7, 1994]

**Subpart K—United States Standards for Sunflower Seed**

TERMS DEFINED

§ 810.1801 **Definition of sunflower seed.**

Grain that, before the removal of foreign material, consists of 50.0 percent or more of cultivated sunflower seed (*Helianthus annuus* L.) and not more than 10.0 percent of other grains for which standards have been established under the United States Grain Standards Act.

§ 810.1802 **Definition of other terms.**

(a) *Cultivated sunflower seed.* Sunflower seed grown for oil content. The term seed in this and other definitions related to sunflower seed refers to both the kernel and hull which is a fruit or achene.

(b) *Damaged sunflower seed.* Seed and pieces of sunflower seed that are badly ground-damaged, badly weather-damaged, diseased, frost-damaged, heat-damaged, mold-damaged, sprout-damaged, or otherwise materially damaged.

(c) *Dehulled seed.* Sunflower seed that has the hull completely removed from the sunflower kernel.

(d) *Foreign material.* All matter other than whole sunflower seeds containing kernels that can be removed from the original sample by use of an approved device and by handpicking a portion of the sample according to procedures prescribed in FGIS instructions.

(e) *Heat-damaged sunflower seed.* Seed and pieces of sunflower seed that are materially discolored and damaged by heat.

(f) *Hull (Husk).* The ovary wall of the sunflower seed.

(g) *Kernel.* The interior contents of the sunflower seed that are surrounded by the hull.

PRINCIPLES GOVERNING THE APPLICATION OF STANDARDS

§ 810.1803 **Basis of determination.**

Each determination of heat-damaged kernels, damaged kernels, test weight per bushel, and dehulled seed is made on the basis of the grain when free from foreign material. Other determinations not specifically provided for in the general provisions are made on the basis of the grain as a whole, except the determination of odor is made on either the basis of the grain as a whole or the grain when free from foreign material.

GRADES AND GRADE REQUIREMENTS

§ 810.1804 **Grades and grade requirements for sunflower seed.**

Grade	Minimum test weight per bushel (pounds)	Maximum limits of—		
		Damaged Sunflower Seed		Dehulled seed (percent)
		Heat Damaged (percent)	Total (Percent)	
U.S. No. 1 .....	25.0	0.5	5.0	5.0
U.S. No. 2 .....	25.0	1.0	10.0	5.0