



Product Specification for LENTILS

Definitions:

For the purposes of these standards the following terms shall have the meaning stated below.

Class-

There is one class: Lentils.

Damaged Lentils-

Whole and pieces of lentils which are distinctly damaged by frost, weather, disease, heat (other than to material extent), immature, or other causes, except weevil or material heat damage or are distinctly soiled or stained by nightshade, dirt, or toxic material.

Defective Lentils (total)-

The categories of defective lentils shall be weevil-damaged lentils, heat-damaged lentils, damaged lentils, and split lentils

Dockage-

Small underdeveloped lentils, pieces of lentils, and all matter other than lentils which can be readily removed by use of sieves and cleaning devices as set forth in the Pea and Lentil Handbook.

Dockage-Free Lentils-

Lentils from which the dockage has been removed.

Fair Color Lentils-

Lentils that are light to moderately discolored from storage or other causes to the extent they cannot be considered of good color.

Foreign Material-

All matter other than lentils, and including detached seed coats.

Good Color Lentils-

Lentils that are practically free from discoloration and have the uniform natural color and appearance characteristics of the predominant lentil type.

Heat-Damaged Lentils-

Whole and pieces of lentils which have been materially discolored as a result of heating.

LENTIL

Lentils-

Threshed seeds of the lentil plant (*Lens Culinaris* Moench), which after removal of the dockage, contain 50.0 percent or more of whole lentils and not more than 10.0 percent foreign material.

Skinned Lentils-

Lentils from which three-fourths or more of the seed coat has been removed.

Split Lentils-

Pieces of lentils which are less than three-fourths of a lentil, and lentils in which the cotyledons are loosely held together.

Stones-

Concreted earthy or mineral matter, and other substances of similar hardness that do not readily disintegrate in water.

Weevil-Damaged Lentils-

Whole and pieces of lentils which are distinctly damaged by weevils or other insects.

Whole Lentil-

Lentils with one-fourth or less of the cotyledons removed and with the remainder of the cotyledons firmly held together.

Inconspicuous Admixture-

Any seed which is difficult to distinguish from a lentil, including, but not limited to, *vicia sativa*.

Poor Color Lentils-

Lentils that are severely discolored from storage or other causes to the extent they cannot be considered of fair color.

Immature Lentils-

Lentils that do not have a traditional lens-shaped profile due to immaturity. Immature lentils are characterized as having a thin or flat (wafer-like), wrinkled, and misshapen appearance. Lentils may also be discolored.

Contrasting Lentils-

Lentils that differ substantially in size or color from the predominance lentil type.

9/64 round-hole sieve-

A metal sieve 0.0319 inch thick, perforated with round holes 0.1406 (9/64) inch in diameter which are 0.1875 (3/16) inch from center to center. (The perforations of each row shall be staggered in relation to the adjacent rows.)

12/64 round-hole sieve-

A metal sieve 0.0319 inch thick, perforated with round holes 0.1875 (12/64) inch in diameter which are 0.250 (1/4) inch from center to center. (The perforations of each row shall be staggered in relation to the adjacent rows.)

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15/64 round-hole sieve-

A metal sieve 0.0319 inch thick, perforated with round holes 0.2343 (15/64) inch in diameter which are 0.3125 (5/16) inch from center to center. (The perforations of each row shall be staggered in relation to the adjacent rows.)

Percentages-

All percentages shall be determined on the basis of weight and shall be rounded off in accordance with instructions shown in the Pea and Lentil Handbook. Percentages shall be stated in whole and tenth percent to the nearest tenth percent.

Principles Governing Application of Standards

Basis of Determination.

1. All factor determinations shall be made upon the basis of the lentils after the removal of dockage, with the following exceptions:
 - A. Dockage shall be determined upon the basis of the thresher-run lentils as sampled.
 - B. Color shall be determined after removal of dockage, defective lentils, and foreign material.
2. Defects in lentils shall be scored in accordance with the order shown in the definitions; and once an individual lentil is scored in a defective category it shall not be scored for any other percentages of other defects in the sample.

REFERENCES:

THE FOLLOWING PUBLICATIONS ARE REFERENCED IN THESE STANDARD AND COPIES WILL BE MADE AVAILABLE UPON REQUEST TO THE FEDERAL GRAIN INSPECTION SERVICE, U.S. DEPARTMENT OF AGRICULTURE.

- A. **MOISTURE HANDBOOK, U.S. DEPARTMENT OF AGRICULTURE, FEDERAL GRAIN INSPECTION SERVICE.**
- B. **PEA AND LENTIL HANDBOOK, U.S. DEPARTMENT OF AGRICULTURE, FEDERAL GRAIN INSPECTION SERVICE.**
- C. **UNITED STATES STANDARDS FOR WHOLE DRY PEAS, SPLIT PEAS AND LENTILS HANDBOOK.**

All LENTILS shipped will be US#1 unless otherwise requested by the customer. US#1 Specifications are as follows.

Not more than 2.0% Total damaged and split lentils.

Not more than 0.2% foreign material.

Not more than 4.0% skinned lentils.

Not more than 13% moisture.

Not more than 3.0 percent will readily pass through a 15/64 round-hole sieve.

Lentils will be good color and uniform in size.

* Shelf life/ Manufacture Code: 2 YEARS/ PACKED DATE

* Storage- DRY

* Product is dated by PRODUCTION DATE

LENTIL

PERCENT MAXIMUM LIMITS OF –FOREIGN MATERIAL

Grading Factors		Grades U.S.		
		1	2	3
Defective Lentils				
Total 1/.....				
Weevil-Damaged Lentils.....		2	3.5	5
Heat-Damaged Lentils.....		0.3	0.8	0.8
		0.2	0.5	1
Foreign Material				
Total 2/.....		0.2	0.5	0.5
Stones.....		0.1	0.2	0.2
Skinned Lentils.....		4	7	10
Contrasting Lentils 3/.....		2	4	>4.0
Inconspicuous Admixture.....		0.5	0.8	1
Minimum Requirements for Color.....		GOOD	FAIR	POOR
<p>U.S. Sample grade shall be lentils which:</p> <p>(a) Do not meet the requirements for the grades U.S. 1, 2, or 3; or</p> <p>(b) Contain more than 14.0 percent moisture, live weevils, or other live insects, metal fragments, broken glass, or a commercially objectionable odor; or</p> <p>(c) Are materially weathered, heating, or distinctly low quality.</p> <p>-</p> <p>1/ Defective lentils total is weevil-damaged, heat-damaged, damaged, and split lentils combined.</p> <p>2/ Foreign material total includes stones.</p> <p>3/ Lentils with more than 4.0 percent contrasting lentils shall grade no higher than a U.S. NO. 3</p>				