

**§28.513**

range represented by a set of samples in the custody of the U.S. Department of Agriculture in a container marked "Original Official Cotton Standards of the United States, American Pima, Leaf Grade No. 2, effective July 1, 1986."

**§28.513 Leaf Grade No. 3.**

Leaf grade No. 3 shall be American Pima cotton which in leaf is within the range represented by a set of samples in the custody of the U.S. Department of Agriculture in a container marked "Original Official Cotton Standards of the United States, American Pima, Leaf Grade No. 3, effective July 1, 1986."

**§28.514 Leaf Grade No. 4.**

Leaf grade No. 4 shall be American Pima cotton which in leaf is within the range represented by a set of samples in the custody of the U.S. Department of Agriculture in a container marked "Original Official Cotton Standards of the United States, American Pima, Leaf Grade No. 4, effective July 1, 2001."

**§28.515 Leaf Grade No. 5.**

Leaf grade No. 5 shall be American Pima cotton which in leaf is within the range represented by a set of samples in the custody of the U.S. Department of Agriculture in a container marked "Original Official Cotton Standards of the United States, American Pima, Leaf Grade No. 5, effective July 1, 2001."

**§28.516 Leaf Grade No. 6.**

Leaf grade No. 6 shall be American Pima cotton which in leaf is within the range represented by a set of samples in the custody of the U.S. Department of Agriculture in a container marked "Original Official Cotton Standards of the United States, American Pima, Leaf Grade No. 6, effective July 1, 2001."

**§28.517 Leaf Grade No. 7.**

American Pima cotton which in leaf is inferior to Leaf Grade No. 6 shall be designated as "Leaf Grade No. 7."

EFFECTIVE DATE NOTE: At 65 FR 36601, June 9, 2000, an undesignated center heading and

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§§28.511 through 28.517 were added, effective July 1, 2000.

**APPLICATION OF STANDARDS AND EXPLANATORY TERMS**

**§28.521 Application of color and leaf grade standards.**

American Pima cotton which in color is within the range of the color standards established in this part shall be designated according to the color standard irrespective of the leaf content. American Pima cotton which in leaf is within the range of the leaf standards established in this part shall be designated according to the leaf standard irrespective of the color content.

**§28.522 Explanatory terms.**

(a) The term preparation is used to describe the degree of smoothness or roughness of the ginned lint. Normal preparation for any color grade of American Pima cotton for which there is a physical color standard shall be that found in the physical color standard. If the preparation is other than normal, it shall be entered on the classification record.

(b) Explanatory terms considered necessary to adequately describe the presence of preparation, spindle twist, and extraneous matter such as bark, grass, seed coat fragments, oil, etc. in the sample, shall be part of the classification record.

EFFECTIVE DATE NOTE: At 65 FR 36601, June 9, 2000, an undesignated center heading and §§28.511-28.517 were added, effective June 11, 2001.

**SYMBOLS AND CODE NUMBERS USED IN RECORDING COTTON CLASSIFICATION**

AUTHORITY: Sec. 28.525 issued under Sec. 10, 42 Stat. 1519 (7 U.S.C. 61). Interpret or apply Sec. 6, 42 Stat. 1518, as amended (7 U.S.C. 56).

**§28.525 Symbols and code numbers.**

For administrative convenience, the symbols and code numbers prescribed in this section may be used in lieu of cotton grade names and staple length designations in inches.

(a) *Symbols and Code numbers used for Color Grades of American Upland Cotton.*

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Color grade	Symbol	Code No.
Good Middling .....	GM	11
Strict Middling .....	SM	21
Middling .....	Mid	31
Strict Low Middling .....	SLM	41
Low Middling .....	LM	51
Strict Good Ordinary .....	SGO	61
Good Ordinary .....	GO	71
Good Middling Light Spotted .....	GM Lt Sp	12
Strict Middling Light Spotted .....	SM Lt Sp	22
Middling Light Spotted .....	Mid Lt Sp	32
Strict Low Middling Light Spotted .....	SLM Lt Sp	42
Low Middling Light Spotted .....	LM Lt Sp	52
Strict Good Ordinary Light Spotted .....	SGO Lt Sp	62
Good Middling Spotted .....	GM Sp	13
Strict Middling Spotted .....	SM Sp	23
Middling Spotted .....	Mid Sp	33
Strict Low Middling Spotted .....	SLM Sp	43
Low Middling Spotted .....	LM Sp	53
Strict Good Ordinary Spotted .....	SGO Sp	63
Strict Middling Tinged .....	SM Tg	24
Middling Tinged .....	Mid Tg	34
Strict Low Middling Tinged .....	SLM Tg	44
Low Middling Tinged .....	LM Tg	54
Strict Middling Yellow Stained .....	SM YS	25
Middling Yellow Stained .....	Mid YS	35
Below Grade—(Below Good Ordinary) .....	BG	81
Below Grade—(Below Strict Good Ordinary Light Spotted) .....	BG	82
Below Grade—(Below Strict Good Ordinary Spotted) .....	BG	83
Below Grade—(Below Low Middling Tinged) .....	BG	84
Below Grade—(Below Middling Yellow Stained) .....	BG	85

(b) *Symbols and Code Numbers used for Leaf Grades of American Upland Cotton.*

Leaf grade	Sym- bol	Code No.
Leaf Grade 1 .....	LG1	1
Leaf Grade 2 .....	LG2	2
Leaf Grade 3 .....	LG3	3
Leaf Grade 4 .....	LG4	4
Leaf Grade 5 .....	LG5	5
Leaf Grade 6 .....	LG6	6
Leaf Grade 7 .....	LG7	7
Below Leaf Grade .....	BLG	8

(c) *Symbols and Code Numbers for Grades of American Pima Cotton.*

Full grade name	Symbol	Code No.
Grade No. 1 .....	AP 1	01
Grade No. 2 .....	AP 2	02
Grade No. 3 .....	AP 3	03
Grade No. 4 .....	AP 4	04
Grade No. 5 .....	AP 5	05
Grade No. 6 .....	AP 6	06
Grade No. 7 .....	AP 7	07

(d) *Code numbers for Length of Staple Designations.*

Length of staple—inches	Code No.
Below 1 <sup>3</sup> / <sub>16</sub> .....	24
1 <sup>3</sup> / <sub>16</sub> .....	26
7 <sup>7</sup> / <sub>8</sub> .....	28
2 <sup>9</sup> / <sub>32</sub> .....	29
1 <sup>5</sup> / <sub>16</sub> .....	30
3 <sup>1</sup> / <sub>32</sub> .....	31
1 .....	32
1 <sup>1</sup> / <sub>32</sub> .....	33
1 <sup>1</sup> / <sub>16</sub> .....	34
1 <sup>3</sup> / <sub>32</sub> .....	35
1 <sup>1</sup> / <sub>8</sub> .....	36
1 <sup>5</sup> / <sub>32</sub> .....	37
1 <sup>9</sup> / <sub>16</sub> .....	38
1 <sup>7</sup> / <sub>32</sub> .....	39
1 <sup>1</sup> / <sub>4</sub> .....	40
1 <sup>9</sup> / <sub>32</sub> .....	41
1 <sup>5</sup> / <sub>16</sub> .....	42
1 <sup>11</sup> / <sub>32</sub> .....	43
1 <sup>3</sup> / <sub>8</sub> .....	44
1 <sup>13</sup> / <sub>32</sub> .....	45
1 <sup>7</sup> / <sub>16</sub> .....	46
1 <sup>15</sup> / <sub>32</sub> .....	47
1 <sup>1</sup> / <sub>2</sub> .....	48
1 <sup>17</sup> / <sub>32</sub> .....	49
1 <sup>9</sup> / <sub>16</sub> .....	50
1 <sup>19</sup> / <sub>32</sub> .....	51
1 <sup>5</sup> / <sub>8</sub> .....	52
1 <sup>21</sup> / <sub>32</sub> .....	53
1 <sup>11</sup> / <sub>16</sub> .....	54
1 <sup>23</sup> / <sub>32</sub> .....	55
1 <sup>3</sup> / <sub>4</sub> .....	56

[32 FR 8760, June 20, 1967, as amended at 50 FR 25198, June 18, 1985; 51 FR 23039, June 25, 1986; 57 FR 34499, Aug. 5, 1992]

EFFECTIVE DATE NOTE: At 65 FR 36601, June 9, 2000, § 28.525 was amended by revising paragraph (c), by redesignating paragraph (d) as paragraph (e), and by adding a new paragraph (d), effective June 11, 2001. For your convenience, the revised and added text follows:

**§ 28.525 Symbols and code numbers.**

\* \* \* \* \*

(c) *Symbols and Code Numbers for Color Grades of American Pima Cotton.*

Full grade name	Symbol Code	No.
Color Grade No. 1 .....	AP C1	01
Color Grade No. 2 .....	AP C2	02
Color Grade No. 3 .....	AP C3	03
Color Grade No. 4 .....	AP C4	04
Color Grade No. 5 .....	AP C5	05
Color Grade No. 6 .....	AP C6	06
Color Grade No. 7 .....	AP C7	07

(d) *Symbols and Code Numbers for Leaf Grades of American Pima Cotton.*

Full grade name	Symbol Code	No.
Leaf Grade No. 1 .....	AP L1	1
Leaf Grade No. 2 .....	AP L2	2
Leaf Grade No. 3 .....	AP L3	3

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Full grade name	Symbol Code	No.
Leaf Grade No. 4 .....	AP L4	4
Leaf Grade No. 5 .....	AP L5	5
Leaf Grade No. 6 .....	AP L6	6
Leaf Grade No. 7 .....	AP L7	7

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**OFFICIAL COTTON STANDARDS OF THE UNITED STATES FOR FIBER FINENESS AND MATURITY**

AUTHORITY: Sections 28.601 to 28.603 issued under secs. 6, 10, 42 Stat. 1518, 1519, sec. 4854, 68A Stat. 580; 7 U.S.C. 56, 61, 26 U.S.C. 4854.

SOURCE: Sections 28.601 to 28.603 appear at 30 FR 7239, May 29, 1965, unless otherwise noted.

**§ 28.601 Official cotton standards for fiber fineness and maturity.**

The official cotton standards of the United States for fiber fineness and maturity shall be the measure of such qualities, in combination, provided by air flow instrument tests in terms of micronaire readings in accordance with the procedure specified in § 28.603.

**§ 28.602 Terms of designations.**

The fiber fineness and maturity of any cotton shall be designated by the micronaire reading obtained from an air flow instrument test for a specimen of the cotton as determined under § 28.603, e.g., 4.1, 4.2, 4.3, etc. To simplify recording, the decimal point may be omitted, and the micronaire reading recorded as 41, 42, 43, etc.

**§ 28.603 Procedures for air flow tests of micronaire reading.**

In determining in terms of micronaire readings, the fiber fineness and maturity, in combination, of cotton, the following procedures shall apply:

(a) Facilities and equipment shall include:

(1) Air flow instrument complete with accessories to measure the fineness and maturity, in combination, of cotton in terms of micronaire reading on the curvilinear scale adopted in September 1950 by the Department of Agriculture, or its equivalent.

(2) A suitable supply of compressed air filtered to remove moisture and other impurities.

(3) Balance or scales suitable for accurately weighing the specimens required for the particular instrument.

(4) International Calibration Cotton Standards with established micronaire reading values for calibration of the air flow instrument.

(b) The instrument shall be calibrated each day before routine testing begins, as follows:

(1) The air shall be allowed to flow through the instrument until the indicator stabilizes.

(2) Specimens from at least two of the calibration cottons shall be tested to insure proper calibration of the instrument. The instrument shall be considered in calibration if the values obtained on the test specimens agree with the established values of the calibration cottons within 0.1 micronaire reading.

(c) Testing of the cotton specimen shall be performed as follows:

(1) Approximately the same amount of cotton shall be taken from each side of the sample for a test specimen. The weight of the test specimen shall be that weight prescribed for the air flow instrument being used.

(2) The weighed specimen shall be tested in a properly calibrated instrument.

(3) The specimen shall be inserted into the specimen holder of the instrument so that the mass of fibers is well distributed within the specimen holder.

(4) The air shall then be allowed to flow through the specimen in accordance with the method of operation of the instrument.

(5) The position of the instrument indicator shall be determined to the nearest 0.1 micronaire reading when it becomes stable.

(d) The accuracy of the instrument shall be checked at least every 2 hours during operation by testing appropriate calibration cottons. If the value obtained on a specimen from the calibration cotton is outside the established limits of 0.1 micronaire reading, or when successive readings show the results to be within the established limits, but consistently high or low, the instrument and technique shall be