

## Characteristics of types, varieties and grades of cotton fiber (TDS 712-2010)

### Characteristics of cotton fiber types

Table 1.

| Type | Stacking weight<br>length, mm,<br>not less | Linear density mtex,<br>not more than | Specific tensile strength,<br>gf/tex |
|------|--------------------------------------------|---------------------------------------|--------------------------------------|
| 1a   | 40,2                                       | 125                                   | 34,0-35,0 and more                   |
| 1b   | 39,2                                       | 135                                   |                                      |
| 1    | 38,2                                       | 144                                   |                                      |
| 2    | 37,2                                       | 150                                   | 31,0-32,0 and more                   |
| 3    | 35,2                                       | 165                                   | 29,0-30,0 and more                   |
| 4    | 33,2                                       | 180                                   | 26,0-28,4 and more                   |
| 5    | 31,2                                       | 190                                   | 24,0-25,5 and more                   |
| 6    | 30,2                                       | 200                                   | 23,5-24,0 and more                   |
| 7    | 29,2                                       | more than 200                         | 23,0-23,5 and more                   |

### Characteristics of varieties of cotton fiber

Table 2.

| Types            | Coefficient of cotton fiber maturity by sorts, not less than |     |     |     |               |
|------------------|--------------------------------------------------------------|-----|-----|-----|---------------|
|                  | I                                                            | II  | III | IV  | V             |
| 1a, 1b, 1, 2, 3, | 2,0                                                          | 1,7 | 1,4 | 1,2 | less than 1,2 |
| 4, 5, 6, 7       | 1,8                                                          | 1,6 | 1,4 | 1,2 | less than 1,2 |

### Characteristics of classes of cotton fiber

Table 3.

| Sorts of cotton<br>fiber | Standards of mass fraction of defects and weed impurity,% not more than,<br>by classes of cotton fiber |      |         |        |      |
|--------------------------|--------------------------------------------------------------------------------------------------------|------|---------|--------|------|
|                          | Supreme                                                                                                | Good | Average | Normal | Weed |
| I                        | 2,0                                                                                                    | 2,5  | 3,0     | 4,0    | 5,5  |
| II                       | 2,5                                                                                                    | 3,5  | 4,5     | 5,5    | 7,5  |
| III                      | -                                                                                                      | 4,0  | 5,5     | 7,5    | 10,0 |
| IV                       | -                                                                                                      | 6,0  | 8,5     | 10,5   | 14,0 |
| V                        | -                                                                                                      | -    | 10,5    | 12,5   | 16,0 |