



FABRIC, COTTON - MATTRESS TICKING

ESB-M9H18-A

1. SCOPE

The material defined by this specification is a cotton fabric mattress ticking of good quality and uniform composition.

2. APPLICATION

This specification was released originally for material used as a mattress cover for truck sleeper cabs.

3. REQUIREMENTS

3.0 STANDARD REQUIREMENTS FOR PRODUCTION MATERIALS

Material suppliers and part producers must conform to the Company's Standard Requirements For Production Materials (WSS-M99P1111-A).

3.2 APPEARANCE

(FLTM BI 109-01)

The color, pattern, and finish shall match the approved Design Center master sample, or shall be as specified on the engineering drawing.

3.3 WIDTH

The width of the fabric shall be as specified on engineering chart 534.

3.4 WEIGHT, min

(FLTM BN 106-01)

8 oz/yd² (0.271 kg/m²)

3.5 CONSTRUCTION AND COMPOSITION, min

(ASTM D 1910)

Warp, Cotton

92 ends/in (36 ends/10mm)

Filling, Spun rayon

38 picks/in (15 picks/10mm)

3.6 TENSILE STRENGTH, min

(ASTM D 1682, Grab Method)

Warp

135 lb (600 N)

Filling

90 lb (400 N)

3.7 SHRINKAGE, max

(FLTM BN 105-01)

Warp

3%

Filling

4%

Date	Action	Revisions
2006 11 06	Revised	▽ESB-M9H18-B inactivated and removed, no replacement named; Inserted 3.0; Deleted 3.1, 3.13, 3.13.1, 3.13.2, 3.13.3, 3.16 & 4 R. Lord
1978 09 19	Revised	Metricated, Renumbered & Retyped CAHI-RD572066-94
1963 07 25	Released	ESB-M9H18-A TS1-412



**3.8 RESISTANCE TO ABRASION**

(FLTM BN 108-01)

(FLTM BN 108-02)

1,000 cycles

500 cycles,

1,000 g load

The fabric shall exhibit no evidence of surface snagging, breaking, or scuffing and the individual yarn components shall remain intact when examined after the above tests. The resistance to abrasion of approved production material shall be equal to that exhibited by the master sample (as approved for production by the Textile Engineering Section, BEPE Materials Engineering Department) on file in the Textile Engineering Section.

3.9 RESISTANCE TO DRY AND WET FADE

(SAE J1885)

No individual yarn or combination of yarns shall stain and exhibit any color tone change, or shall yarns change in hue, brightness, or purity in accordance with rating 5 of the AATCC chart for measuring transference of color. Production materials shall exhibit light-fastness qualities equal to or better than the master sample (as approved for production by the Textile Engineering Section, BEPE Materials Engineering Department) on file in the Textile Engineering Section, after exposing the fabric and the fabric with adjacent approved assembly components for a period of 40 standard fade hours the Fadeometer, and/or 5,250 Langleys in Florida and Arizona under glass at a 45E (0.79 rad) south.

3.10 RESISTANCE TO BLEEDING AND PERSPIRATION

(FLTM AN 101-01)

The contact materials shall correspond to rating 5 when compared to the AATCC chart for measuring the transference of color.

3.11 RESISTANCE TO SPOTTING

(FLTM AN 101-01)

No spots shall remain after drying and mild hand brushing.

3.12 WET AND DRY CROCKING

(FLTM BN 107-01)

Materials shall correspond to rating 5 dry and 4 to 5 wet when compared to the AATCC chart for measuring transference of color.

3.14 SOILING AND CLEANABILITY

(FLTM BN 112-02)

The fabric shall resist soiling and shall possess satisfactory cleaning properties without leaving objectionable rings and stains and shall meet a rating of 4 to 5 of the AATCC chart for measuring transference of color. Also, fabrics which contain a fluorochemical face finish (or equivalent), shall exhibit an oil repellency rating of 90 minimum.

3.15 TEAR STRENGTH, TRAPEZOID, min

(ASTM D 5733)

Warp

12 lb (53 N)

Filling

10 lb (45 N)