



ENGINEERING MATERIAL SPECIFICATION

Material Name

Specification Number

FABRIC, SPECTRUM PATTERN, KNITTED, UNLAMINATED	WSD-M1H587-A
FABRIC, SPECTRUM PATTERN, KNITTED, 3 mm	WSD-M1H587-B1
FABRIC, SPECTRUM PATTERN, KNITTED, 6 mm	WSD-M1H587-B2
FABRIC, SPECTRUM PATTERN, KNITTED, 3 mm	WSD-M1H587-C1
FABRIC, SPECTRUM PATTERN, KNITTED, 6 mm	WSD-M1H587-C2
FABRIC, SPECTRUM PATTERN, KNITTED, 6 mm	WSD-M1H587-D2
FABRIC, SPECTRUM PATTERN, KNITTED, 3 mm PU	WSD-M1H587-F1
FABRIC, SPECTRUM PATTERN, KNITTED, 6 mm PU	WSD-M1H587-F2
FABRIC, SPECTRUM PATTERN, KNITTED, HFW	WSD-M1H587-G
FABRIC, SPECTRUM PATTERN, KNITTED, HFW	WSD-M1H587-H
FABRIC, SPECTRUM PATTERN, KNITTED, HFW	WSD-M1H587-J
FABRIC, SPECTRUM PATTERN, KNITTED, HFW	WSD-M1H587-K

1. SCOPE

The material defined by this specification is a 6 bar 44 gauge DBR knitted, simulated velour, polyester fabric which can be flame laminated to polyester or polyether urethane foam and backed with a knitted fabric or polyurethane film. It can also be backed with an HFW weldable backcoating.

2. APPLICATION

WSD-M1H587-A Is used for moulded headrests and also adhesive coated for use on inner door panels.

WSD-M1H587-B1, B2, C1, C2, F1, F2 are used for seat wearing surfaces.

WSD-M1H587-D2 is adhesively bonded for inner door and quarter trim panel.

WSD-M1H587-G, H, J & K are used for inner door, quarter trim panels and/or as specified on Engineering Drawings.

SPECTRUM PATTERN

WSD-M1H587-A	Unlaminated
WSD-M1H587-B1	3.0 mm, flame laminated to polyether foam and knitted fabric
WSD-M1H587-B2	6.0 mm, flame laminated to polyether foam and knitted fabric
WSD-M1H587-C1	3.0 mm, flame laminated to polyester foam and knitted fabric (EAO use only)
WSD-M1H587-C2	6.0 mm, flame laminated to polyester foam and knitted fabric (EAO use only)
WSD-M1H587-D2	6.0 mm, flame laminated to polyether foam
WSD-M1H587-F1	3.0 mm, flame laminated to polyester foam and polyurethane film (EAO use only)
WSD-M1H587-F2	6.0 mm, flame laminated to polyester foam and polyurethane film (EAO use only)

Date	Action	Changes
1996 04 22	Revised	Rev para 3, 3.9, 3.13, 3.14.1; updated N. Komatsu
1994 04 08	C10383744	Released D2, Rev. 3.14 N. Komatsu
1992 11 09	C10256960	Released M. C. Judd

WP 3948-a

Page 1 of 7

9009160 0011886 685



WSD-M1H587-G	HF-weldable vinyl film, adhesive bonded, or an engineering approved alternative
WSD-M1H587-H	HF-weldable acrylic backcoating applied by the doctor-knife spreading technique, or an engineering approved alternative
WSD-M1H587-J	HF-weldable vinyl backcoating applied by the doctor-knife spreading technique, or an engineering approved alternative
WSD-M1H587-K	HF-weldable polyurethane backcoating applied by the doctor-knife spreading technique, or an engineering approved alternative

3. REQUIREMENTS

In addition to the requirements listed herein, the fabric shall meet all requirements of WSB-M8P1-I.

3.1 QUALITY SYSTEM REQUIREMENTS

Material suppliers and part producers must conform to Quality System Requirements, QS-9000. Material specification requirements are to be used for initial qualification of materials. A Control Plan for ongoing production verification is required. This plan must be reviewed and approved by the relevant Ford Materials activity and/or Ford Supplier Technical Assistance (STA) prior to production parts submission. Appropriate statistical tools must be used to analyze process/product data and assure consistent processing of the materials.

Part producers using this material in their products, must use Ford approved materials and must conform to a process control plan which has been approved by STA and/or the relevant Materials Activity.

3.2 INFRARED SPECTROPHOTOMETRY AND/OR THERMAL ANALYSIS

Ford Motor Company, at its option, may conduct infrared and/or thermal analysis of material/parts supplied to this specification. The IR spectra and thermograms established for initial approval shall constitute the reference standard and shall be kept on file at the designated material laboratory. All samples shall produce IR spectra and thermograms that correspond to the reference standard when tested under the same conditions.

3.3 CONDITIONING AND TEST CONDITIONS

All test values indicated herein are based on material conditioned in a controlled atmosphere of 23 +/- 2 C and 50 +/- 5 % relative humidity for not less than 24 h prior to testing and tested under the same conditions unless otherwise specified.



3.4 FABRIC CONSTRUCTION

3.4.1 Fabric Count, +/- 5% tolerance
(ASTM D 3887)

Wales 90 wales/10 cm

Courses 110 courses/10 cm

3.4.2 Fabric Weight, min 280 - 320 g/m2
(FLTM BN 106-01)3.4.3 Pile Height, min 1.7 mm
(Microscope Technique)3.5 COMPOSITION
(ASTM D 629)

Fabric 100% polyester

3.6 YARN CONSTRUCTION
(ASTM D 1244)

No. 1 Bar: 100 dTex x 20 f, polyester, spun dyed grey or black
texturised
No. 2 Bar: 100 dTex x 40 f, polyester, semi-dull
No. 3 Bar: 270 dTex x 64-72 f, polyester, bright
No. 4 Bar: 270 dTex x 64-72 f, polyester, bright
No. 5 Bar: 100 dTex 40 f, polyester semi-dull
No. 6 Bar: 100 dTex 20 f, polyester, spun dyed grey or black,
texturised

3.7 METHOD OF DYEING Yarn dyed or as approved by
Materials Engineering3.8 FINISHED OPERATIONS As approved by Materials
Engineering

3.9 REQUIREMENTS FOR POLYESTER FOAM As specified in WSD-M2D243-A4

3.10 REQUIREMENTS FOR POLYETHER FOAM As specified in WSD-M2D243-A2

3.11 REQUIREMENTS FOR THE BACKING
FABRIC (B1, B2) As specified in WSD-M9H111-B3.12 REQUIREMENTS FOR THE BACKING
FABRIC (C1, C2) As specified in WSD-M9H136-A3.13 REQUIREMENTS FOR THE
POLYURETHANE BACKING FILM
(F1, F2) As specified in WSD-M99H134-B1