



CONVERTIBLE TOP PERFORMANCE SPECIFICATION

WSS-M8P20-A

1. SCOPE

This specification defines the standard performance requirements for exterior materials used in fully retractable convertible top assemblies.

2. APPLICATION

This specification was released for the exterior material used for convertible top applications including well lining, reinforcements and binding. The headliner must meet requirements per WSS-M15P27-F Headliner Performance Specification except for paragraphs 3.4, 3.5, 3.11, 3.21 and 3.22. Visible painted metal parts must meet the requirements per WSS-M2P190-A Interior Metal Parts Paint Performance Specification.

3. REQUIREMENTS

In addition to the requirements listed herein, the end-item convertible top assembly shall meet all requirements of the material specifications for the individual components if applicable. See Table 1 for sample sizes and required testing.

3.1 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 SAMPLE SELECTION

All evaluations shall be conducted on test specimens taken from production representative convertible top assemblies.

3.3 APPEARANCE (FLTM BI 109-01)

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

3.4 RESISTANCE PROPERTIES

3.4.1 Resistance to Mildew and Staining (ASTM G 21 and ASTM E 1428) No evidence of fungal growth or staining.

3.4.2 Resistance to Wicking (NA for well sling) (SAE J913, 4h immersion, using 50% soap solution) None

The fabric shall be treated to prevent wicking

3.4.3 Cold Flexibility (FLTM BN 102-01)

Shall remain flexible and not crack when bent 180° around the 6.4 mm mandrel at -30 °C.

Date	Action	Revisions
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Documents

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- 3.4.4 Resistance to W Flex (FLTM BN 102-02) The coating shall show no evidence of crazing, lifting, peeling, cracking or delamination from the fabric.
- Original 10,000 cycles
After Heat Aging per para 3.4.8 4,000 cycles*
After 1500 hrs Accelerated Weathering per para 3.6.1 4,000 cycles*
- *Target requirement pending additional test data.
- 3.4.5 Resistance to Cleaning Agents, min Rating 4
(FLTM BN 107-01, 10 cycles, AATCC Evaluation Procedure 2)
- Test Procedure: Saturate white cotton cloth with the cleaners listed. Evaluate According to the AATCC Scale/
- Cleaners
- Window cleaner (Windex or commercial equivalent product)
 - All purpose cleaner (409 or commercial equivalent product)
 - Motorcraft Detail Wash ZC-3-A or equivalent*
 - Isopropyl Alcohol/water 50% v/v
- * Recommendation- Wolfsteins Pro Series RaggTopp Cleaner available at: <http://www.wolfsteins.com/>
- 3.4.6 Fluid Spotting Resistance, min Rating 4
(FLTM BI 168-01, Method B, AATCC Evaluation Procedure 1/ISO 105-A02)
- Test Fluids: (Body and Exterior Trim use, exclude diesel, coolant and engine oil)
- No staining or change in color.
- 3.4.7 Soiling and Cleanability (N/A for well sling), min
(FLTM BN 112-08 ISO 105-A03/AATCC Evaluation Procedure 2, grease, coffee, and AATCC soil only. Also apply body wax
- Use Motorcraft ZC-3-A Detail Wash or RaggTopp cleaner)
- Cleanability Rating 3
- 3.4.8 Heat Resistance, min Rating 4
(7 days at 80 +/-2 °C, AATCC Evaluation Procedure 1/ ISO 105-A02)
- 3.4.9 Environmental Cycling, min Rating 4-5
(AATCC Evaluation Procedure 1/ ISO 105-A02)