



ANODIZED ALUMINUM PERFORMANCE, BRIGHT/ COLORED INTERIOR TRIM

WSS-M4P13-C

1. SCOPE

This specification defines the minimum durability and performance requirements of anodized aluminum for bright or colored interior trim components.

2. APPLICATION

This performance specification was released originally for anodized aluminum cargo management rails and other interior components.

2.1 LIMITATIONS

Any cleaning agent containing a combination of ethoxylated C12-15 fatty acid and sodium metasilicate should not be used to clean this material (example: Motorcraft Multipurpose Cleaner). Surface attack will occur leaving a chalky substance on the surface.

3. REQUIREMENTS

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 ANODIZED ALUMINUM PERFORMANCE MANAGEMENT

All materials evaluated under this performance specification must have Supplement A completed and signed by Ford Materials Engineering, the material/coatings supplier, and the Tier One supplier. The Supplement A and specification data will be stored in the Ford Materials Database (FMD).

Table 2.0 describes the construction of the anodized aluminum, and must be submitted with Supplement A. (Reference Supplement A). The Tier One supplier is responsible for including Table 2.0 and this performance specification on the part drawing.

3.3 FINISHED PARTS

Testing must be conducted at Design Verification (DV) and Product Validation (PV) per Table 1.0 (including Supplement A), unless otherwise agreed to by Materials Engineering, and on actual production parts or a section of the part whenever possible. Where part dimensions limit testing equipment access, representative test samples may be substituted. PV Testing must be conducted on actual production processed parts. No change in material, facility, or processing is permitted without written approval from Ford Materials Engineering Activity, via SREA.

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2014 09 11	Released		

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3.4 APPEARANCE: COLOR, FINISH (FLTM BI 109-01)

The color, gloss, and finish of the anodized aluminum part shall be specified on the engineering drawing and be uniform along the entire length of the assembly.

The surface shall be free of blisters, voids and scratches.

3.5 RESISTANCE PROPERTIES

The following requirements shall be assessed on whole parts or sections of assemblies and must include all materials and constructions found within the parts (molded corners, bright inserts, flock coating, etc.).

Separate specimens are required for each test.

The parts after being subjected to the tests listed below shall conform to the following requirements in addition to the ones listed for each paragraph.

(a) No cracking, chalking, crazing, iridescence, bloom, milkiness, separation, loss of adhesion (coating), or loss of embossment allowed (as defined in ASTM D1566).

(b) No visible corrosion or blistering is permitted.

3.5.1 Corrosion Resistance (Modified CETP 00.00-L-467 per RQT 001101-002492 (18-0040) table 4 for Interior Body)

No white corrosion, no blistering, softening, dulling, loss of adhesion, or cracking permitted.

3.5.2 Resistance to Water and Soap Spotting (FLTM BI 113-01) ISO 105-A02/AATCC Evaluation Procedure 1)

Rating 4 min
No surface
softening

3.5.3 Soiling and Cleanability (FLTM BN 112-08, ISO 105-A02/ AATCC Evaluation Procedure 2, Grease and coffee soiling agents only)

Rating 4 min

3.5.4 Resistance to Window Cleaner Spotting (ISO 105-A02 / AATCC Evaluation Procedure 1)

Rating 4 min
No surface
Softening

Apply 0.25 ml of glass cleaner on the test sample using
A non-reactive O-ring. Expose the sample at room
Temperature for 1 hr.

Commercially Available Glass Cleaner