



LACQUER, CONDUCTIVE SILVER COATING, SERVICE REPAIR

WSB-M4J58-B

1. SCOPE

The material defined by this specification is a one component, air dry conductive coating with a fine dispersion of pure silver combined with an organic binder.

2. APPLICATION

This specification was released originally for paint used for service to repair damaged, fused silver filled ceramic gridline for the (WSB-M12P2-B) electrically heated backlites.

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).

3.4	COLOR	Argent
3.5	SOLIDS (Total) (ASTM D 2369, 1h at 110 °C)	53.0 +/- 0.2%
3.6	VISCOSITY (ASTM D 2196, Method A, Brookfield LVT #2 at 30 rpm)	50 - 300 cP.s
3.7	WEIGHT, per volume (ASTM D 1475)	1.48 +/- 0.01 kg/L
3.8	PERFORMANCE	

3.8.1 Thermal Cycle Adhesion

There shall be no change of color, adhesion, or evidence of cracking, blistering or peeling at the repaired area when exposed for four cycles as follows:

- . Oven heat at 90 °C for 4 h
- . Humidity cabinet for 4 h at 40 +/- 2 °C and 95 - 100% relative humidity
- . Low temperature, -40 °C for 16 h

Date	Action	Revisions
2008 01 23	Revised	Inserted 3.0; Deleted 3.1, 3.2, 3.3, 3.9 & 4
1992 07 21	Released	NB00110043054193



Documents

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- 3.8.2 Accelerated Weathering 400 h
(FLTM BO 101-01)

The material shall exhibit no checking, blistering or loss of adhesion, and no more dulling or color change than the approved sample on file in the Body Materials Engineering Department after exposure in the weatherometer.

- 3.8.3 Florida Exposure (for qualification only)

The material shall exhibit no checking, blistering or loss of adhesion, and no more dulling or color change than the approved sample on file in the Body Materials Engineering Department after 12 months minimum exposure at 5° facing south in the Miami, Florida area.

Note: In the event of differences in test results between accelerated (3.9.2) and Florida (3.9.3) weathering, results of the Florida exposure shall govern.

- 3.8.4 Water Resistance After Weathering 24 h
(FLTM BI 104-01)

After either accelerated (3.9.2) or Florida (3.9.3) weathering exposure, the part shall be immersed in water. There shall be no failure in the repaired gridline by blistering, dulling, color change, or loss of adhesion. Adhesion shall be determined as follows:

Remove the part from the water. Dry the test area, using a paper towel or cloth and immediately apply thumb pressure. Any movement or removal of the material shall be basis for rejection.

5. GENERAL INFORMATION

The information given below is provided for clarification and assistance in meeting the requirements of this specification.

5.1 CLEANUP

Methyl ethyl ketone (MEK) or acrylic lacquer solvents is recommended for cleanup of excess coating material.

5.2 RESISTIVITY

Less than 1 ohm, measured across the repaired break of the gridline.

5.3 STABILITY

The material does not freeze and will have a shelf life for one year.

5.4 FLASH POINT 17.8 C (Open Cup)

5.5 NORMAL GLASS CLEANING

Commercial glass cleaners and ammonia do not affect the repair material.