INCREMENTAL CHANGE Release Notification Date: 01/09/2023

SPM 70-00-99 S1222 - CONSUMABLE MATERIALS - THIN FILM SULFURIC ACID ANODIZING HEXAVALENT CHROMIUM FREE SEALING SOLUTION

DISCLAIMER

The Incremental Changes published by GE Aviation are considered Instructions for Continued Airworthiness. These Incremental Changes, along with the current Manual revision and published Temporary Revisions, constitute the latest Instructions for Continued Airworthiness.

GE Designated: -CONFIDENTIAL-

HIGHLIGHTS

HIGHLIGHT REFERENCE	DESCRIPTION OF CHANGE
tk70-00-99-801-821	Technical Change: Added Solution Sheet S1222 for a thin film sulfuric acid anodizing hexavalent chromium free sealing solution.

TASK 70-00-99-801-821

1. Commercial Products.
   A. Lanthane 613.3 is an alternative solution to hexavalent Chromium containing sealants applied after anodizing.
2. Composition.

Subtask 70-00-99-350-025

Consumable Product	No.	Concentration (Initial Mix)
Lanthane 613.3 Part A	C03-128	95-105 ml/L
Lanthane 613.3 Part B	C03-129	70-80 ml/L

3. Preparation.

Subtask 70-00-99-350-026

WARNING: ACID SOLUTIONS ARE VERY ACTIVE AND CAUSE SERIOUS BURNS. AVOID CONTACT WITH SKIN, EYES, AND CLOTHING. AVOID BREATHING OF VAPORS. IF CONTACT OCCURS, WASH IMMEDIATELY WITH ABUNDANT QUANTITY OF WATER.

WARNING: OPERATOR SHOULD WEAR FACE SHIELD, GLOVES, PROTECTIVE CLOTHING, AND PROTECTIVE SHOES.

NOTE: The bath must be made-up with demineralized water. Use of hard water can cause bath precipitation and spots on the deposits. The bath components must be added in the correct order.

A. Fill half of a perfectly clean tank with demineralized water, then add Lanthane 613.3 Part A (C03-128) whilst agitating.
B. Slowly add Lanthane 613.3 Part B (C03-129) whilst agitation.
C. Fill up to the final volume with demineralized water.
D. Do an inspection of the pH value and if necessary, adjust it with 10 percent of diluted nitric

acid or 10 percent of diluted ammonium hydroxide solution.
Correction of the pH should be made with:
*10 percent of nitric acid to decrease the pH
*10 percent of ammonium hydroxide to increase the pH

4. Check.

Subtask 70-00-99-350-027

A. The pH of the bath must be checked regularly and kept within the recommended range. Follow the manufacturer's control procedures to maintain the solution.
Agitation: Mechanical or bubbling is recommended.

5. Regeneration.

Subtask 70-00-99-350-028

A. If required, follow the manufacturer's regeneration procedures to maintain the solution.