

Certificate of Conformance
SIFCO Process Solution

The solution identified below has been tested under controlled conditions and found to meet SIFCO Applied Surface Concepts specifications and Quality Assurance standards. This product does not contain, nor has it been contaminated with metallic mercury or mercury compounds. SIFCO ASC, LLC is a mercury free facility.

This product is free from all foreign materials that could result in foreign object damage to the equipment or process.

Capability of Meeting Specifications

SIFCO Process electroplates, when properly selected and applied, will meet the requirements of: AMS2451/10B, ASTM F519, MIL-STD-2197A (SH) and MIL-STD-865E.

Product Code	5034
Product Description	Tin Zinc
Batch Number	2205017
Test Requirement	Actual Value
pH	8.93 @ 20°C
Specific Gravity	1.198 @ 20°C
Metal Content	17.61 Zn g/L 32.83 Sn g/L
Hydrogen Embrittlement	CONFORMS
200 Hour Fracture Test	Pass AMS 2451/10 Report Number: 22-74166
Solution Appearance	Colorless to Pale Yellow
Date of Manufacture	May 4, 2022
Date of Expiration	May 4, 2023



Quality Technician

05/19/2022

Date

"Specialists in Embrittlement Testing"

Date: May 18 2022

To: SIFCO OH
5708 Schaaf Road
INDEPENDENCE, OH 44131

Test Report: 22-74166

Reference P.O.: PO00008642
SN 1 - 4

Test: NOTCH TENSILE HYDROGEN EMBRITTLEMENT

Sample Identification: SAMPLES A, B, C, D:

Job / SN: SOLUTION CODE 5034, BATCH 2205017

Process: BRUSH TIN ZINC PLATE

PO Specification: AMS 2451/10B, ASTM F519 1A1

Test Method Scope: ASTM F519-18

Receive Date: May 09, 2022
Test Start Date: May 09, 2022
Test End Date: May 18, 2022

Sample Lot: 12H **Mfg.:** GREEN
Notched Ultimate Tensile Load: 9370 **Units:** LBS
Test Load: 7028 **Units:** LBS

Results: Conforms

The above identified notched tensile samples were subjected to a 200-hour sustained load test at a load of 75% of the Notch Ultimate Tensile Load (NUTL). Results above are applicable to submitted purchase order specifications. Additionally, results apply to the samples as received. Variances as applicable are noted at bottom right of report:

Report Revision: 1
Revision Description: 1 - Original



APPROVED
DS 5/19/22

Testing performed under direct supervision of approved signatories per QMS 9012 ISO 17025 Quality Manual PARA 7.8.

Jeremy Riley Ops Mgr
Joshua Cox Quality Mgr
Clint Williams Engg. Tech

Decision Rule: Per previously communicated and agreed, data has been supplied/reported as observed without accounting for measurement uncertainty.

Report invalid unless color seal present. Page 1 of 1