

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: AMS2451/10, MIL-STD-865E and ASTM F 519-18.

Product Code	4019
Product Description	Tin-Zinc LHE®
Batch Number	2301023
Test Requirement	Actual Value
pH	6.47 @ 20°C
Specific Gravity	1.202 @ 20°C
Metal Content	Sn 27.31 g/l Zn 13.54
Solution Appearance	Yellow
Date of Manufacture	January 11, 2023
HE Certification Date	January 25, 2023 Lab Report# 23-77368
Date of Expiration	January 11, 2025



Quality Technician

02/27/2023

Date

"Specialists in Embrittlement Testing"

Date: January 25 2023
To: **SIFCO OH**
5708 Schaaf Road
INDEPENDENCE, OH 44131
Test Report: 23-77368
Reference P.O.: PO00009387
S/N 1,2,3,4
Test: **NOTCH TENSILE HYDROGEN EMBRITTLEMENT**
Sample Identification: SAMPLES A, B, C, D:
Job / SN: SOLUTION 4019 BATCH 2301023
Process: BRUSH TIN ZINC PLATE
PO Specification: AMS 2451/10B, ASTM F519 1A1
Test Method Scope: ASTM F519-18
Receive Date: Jan 16, 2023
Test Start Date: Jan 16, 2023
Test End Date: Jan 25, 2023
Sample Lot: 66H **Mfg.:** GREEN
Notched Ultimate Tensile Load: 9216 **Units:** LBS
Test Load: 6912 **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 1/30/23

Testing performed under direct supervision of approved signatories per QM-001 ISO 17025 Quality Manual PARA 7.8.

Jeremy Riley **Joshua Cox** **Clint Williams**
Ops Mgr **Quality Mgr** **Engr 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

