

## 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

Quality Technician

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	2303024	
Test Requirement	Actual Value	
рН	6.37	@ 20°C
Specific Gravity	1.202	@ 20°C
Metal Content	Sn 26.86 Zn 13.39	g/l
Solution Appearance	Yellow	
Date of Manufacture	March 24, 2023	
HE Certification Date	April 5, 2023 Lab Report# 23-78162	
Date of Expiration	March 24, 2025	

F 7.5.1-2 Revision 6 7/22/2013

04/11/2023

Date



Phone: 940-648-5828 OmegaResearchInc.com

"Specialists in Embrittlement Testing"

Date:

April 05 2023

To:

SIFCO OH

5708 Schaaf Road

INDEPENDENCE, OH 44131

**Test Report:** 

23-78162

Reference P.O.:

PO00009593

S/N 1, 2, 3, 4

Test:

NOTCH TENSILE HYDROGEN EMBRITTLEMENT

Sample Identification:

SAMPLES A, B, C, D:

Job / SN:

**SOLUTION 4019 BATCH 2303024** 

**Process:** 

**BRUSH TIN ZINC PLATE** 

**PO Specification:** 

AMS 2451/10B, ASTM F519 1A1

**Test Method Scope:** 

ASTM F519-18

**Receive Date:** 

Mar 27, 2023

**Test Start Date:** 

Mar 27, 2023

**Test End Date:** 

Apr 05, 2023

Sample Lot:

15J

Mfg.: GREEN

Notched Ultimate Tensile Load:

9270

Units: LBS

Test Load:

6953

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:

**Revision Description:** 

1 - Original

Testing performed under direct supervision of approved signatories per QM-001 ISO 7025 Quality Manual PARA 7.8.

Jeremy Riley

Deborah Smith Clint Williams

Ops Mgr

**Quality Mgr** 

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

Accredited Lab Mechanical, Metallurgical & Corrosion Testing