

## 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	2203016	
Test Requirement	Actual Value	
рН	8.91	@ 20°C
Specific Gravity	1.195	@ 20°C
Metal Content	17.18 Zn 33.16 Sn	g/L g/L
Hydrogen Embrittlement	CONFORMS	
200 Hour Fracture Test	Pass AMS 2451/10 Report Number: 22-73546	
Solution Appearance	Colorless to Pale Yellow	
Date of Manufacture	March 4, 2022	
Date of Expiration	March 4, 2023	

Quality Technician Date

F 7.5.1-2 Revision 6 7/22/2013

Phone: 940-648-5828 OmegaResearchInc.com

"Specialists in Embrittlement Testing"

Date:

March 18 2022

To:

SIFCO OH

5708 Schaaf Road

INDEPENDENCE, OH 44131

Test Report:

22-73546

Reference P.O.:

PO00008436

Test:

NOTCH TENSILE HYDROGEN EMBRITTLEMENT

Sample Identification:

SAMPLES A, B, C, D:

Job / SN:

**SOLUTION 5034 BATCH 2203016** 

Process:

**BRUSH TIN ZINC PLATE** 

PO Specification:

AMS 2451/10B, ASTM F519 1A1

**Test Method Scope:** 

ASTM F519-18

Receive Date:

Mar 09, 2022

**Test Start Date:** 

Mar 09, 2022

**Test End Date:** 

Mar 18, 2022

Sample Lot:

12H

Mfg.: GREEN

Notched Ultimate Tensile Load:

9370

Units: LBS
Units LBS

Test Load:

7028

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

CALL SELECT

OMEGA RESS ASCISSOR OF A TOTAL OF THE TOTAL

Jeremy Riley

Joshua Cox Clint Williams

O-- M---

nality Mora AEnor. Tecl

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

Report invalid unless color seal present. Page 1 of 1