

<u>Certificate of Conformance</u> 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.

Product Code	4019	
Product Description	Tin-Zinc LHE®	
Batch Number	2006017	
Test Requirement	Actual Value	
рН	6.30	@ 20°C
Specific Gravity	1.205	@ 20°C
Metal Content	Sn 28.52 Zn 13.37	g/l
Solution Appearance	Yellow	
Date of Manufacture	June 9, 2020	
HE Certification Date	June 20, 2020 Lab Report# 20-65764	
Date of Expiration	June 9, 2022	
- 4		

F 7.5.1-2 Revision 6 7/22/2013

Quality Systems Engineer

06/23/2020

Date



Phone: 940-648-5828 OmegaResearchInc.com

"Specialists in Embrittlement Testing"

Date:

June 22 2020

To:

SIFCO OH -

5708 Schaaf Road

INDEPENDENCE, OH 44131

Test Report:

20-65764

Reference P.O.:

PO00006530

S/N 1-4

Test:

NOTCH TENSILE HYDROGEN EMBRITTLEMENT

Sample Identification:

SAMPLES A, B, C, D:

Job / SN:

SOLUTION 4019 BATCH 2006017

Process:

BRUSH TIN ZINC

PO Specification:

AMS2451/10B, ASTM F519

Test Method Scope:

ASTM F519-18

Receive Date:

Jun 11, 2020

Test Start Date:

Jun 11, 2020

Test End Date:

Jun 20, 2020

Sample Lot:

38F

Mfg.: GREEN

Notched Ultimate Tensile Load:

8815

Units: LBS

Test Load:

6611

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

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

Jeremy Riley

Joshua Cox **Ouality Mgr**

Clint Williams 2

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

Report invalid unless color seal present. Page 1 of 1