

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	2110020	
Test Requirement	Actual Value	
рН	6.31	@ 20°C
Specific Gravity	1.205	@ 20°C
Metal Content	Sn 27.74 Zn 13.60	g/l
Solution Appearance	Yellow	
Date of Manufacture	October 26, 2021	
HE Certification Date	November 11, 2021 Lab Report# 21-71633	
Date of Expiration	October 26, 2023	
SARA		11/23/2021

F 7.5.1-2 Revision 6 7/22/2013

Date

Quality Systems Engineer



Phone: 940-648-5828 OmegaResearchInc.com

"Specialists in Embrittlement Testing"

Date:

November 11 2021

To:

SIFCO OH

5708 Schaaf Road

INDEPENDENCE, OH 44131

Test Report:

21-71633

Reference P.O.:

PO00008065

S/N 1 - 4

Test:

NOTCH TENSILE HYDROGEN EMBRITTLEMENT

Sample Identification:

SAMPLES A, B, C, D:

Job / SN:

SOLUTION CODE 4019 BATCH 2110020

Process:

BRUSH TIN ZINC PLATE

PO Specification:

AMS 2451/10B, ASTM F519 1A1

Test Method Scope:

ASTM F519-18

Receive Date: Test Start Date: Nov 02, 2021 Nov 02, 2021

Test End Date:

Nov 11, 2021

Sample Lot:

39G

Mfg.: GREEN

Notched Ultimate Tensile Load:

9054

Units: LBS

Test Load:

6791

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 O. 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

5mB 11/23/2021