

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	2207018	
Test Requirement	Actual Value	
рН	8.72	@ 20°C
Specific Gravity	1.193	@ 20°C
Metal Content	16.82 Zn 32.90 Sn	g/L g/L
Hydrogen Embrittlement	CONFORMS	
200 Hour Fracture Test	Pass AMS 2451/10 Report Number: 22-75039	
Solution Appearance	Colorless to Pale Yellow	
Date of Manufacture	July 28, 2022	
Date of Expiration	July 28, 2023	
Angula L		

Quality Systems Engineer

08/15/2022

Date

Phone: 940-648-5828 OmegaResearchInc.com

"Specialists in Embrittlement Testing"

Date:

August 10 2022

To:

SIFCO OH

5708 Schaaf Road

INDEPENDENCE, OH 44131

Test Report:

22-75039

Reference P.O.:

PO00008879

S/N 1, 2, 3, 4

Test:

NOTCH TENSILE HYDROGEN EMBRITTLEMENT

Sample Identification:

SAMPLES A, B, C, D:

Job / SN:

SOLUTION CODE 5034 BATCH 2207018

Process:

BRUSH TIN ZINC PLATE

PO Specification:

AMS 2451/10B, ASTM F519 1A1

Test Method Scope:

ASTM F519-18

Receive Date:

Aug 01, 2022

Test Start Date:

Aug 01, 2022

Test End Date:

Aug 10, 2022

Sample Lot:

33H

Mfg.: GREEN

Notched Ultimate Tensile Load:

9172

Units: LBS

Test Load:

6879

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-00 ISO 17025 Quality Manual PARA 7.8.

Jeremy Riley

(C). Clint Williams

Ops Mgr

Quality Mgr Engr Tech

Decision Rule: Per previously communicated and agreed en 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