

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: AMS2451D, MIL-STD-2197A (SH), MIL-STD-865E and DPS9.89-1

Product Code	5644
Product Description	Nickel High-Speed, LHE®
Batch Number	2201161

Test Requirement	Actual Value
pH	7.70 @ 20°C
Specific Gravity	1.172 @ 20°C
Metal Content	52.19 g/l
Solution Appearance	Blue Green
Date of Manufacture	January 13, 2022
HE Certification Pass Date	January 29, 2022 Report #22-73044
Recommended Shelf Life	January 13, 2026



Quality Technician

02/07/2022

Date



"Specialists in Embrittlement Testing"

Date: January 31 2022
To: **SIFCO OH**
5708 Schaaf Road
INDEPENDENCE, OH 44131
Test Report: 22-73044
Reference P.O.: PO00008282
Test: **NOTCH TENSILE HYDROGEN EMBRITTLEMENT**
Sample Identification: SAMPLES A, B, C, D:
Job / SN: SOLUTION CODE 5644, BATCH 2201161
Process: BRUSH NICKEL
PO Specification: DPS 9.89-1, ASTM F519
Test Method Scope: ASTM F519-18
Receive Date: Jan 20, 2022
Test Start Date: Jan 20, 2022
Test End Date: Jan 29, 2022
Sample Lot: 82G **Mfg.:** GREEN
Notched Ultimate Tensile Load: 9244 **Units:** LBS
Test Load: 6933 **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:



Revision Description:
1 - Original

APPROVED
omb 2/7/2022

Testing performed under direct supervision of approved signatories per QM-001 ISO 17025 Quality Manual PARA 7.8.
Jerome Riley **Joshua Cox** **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