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January 2012

### **ADHESION**

### ***No Shortcuts Allowed***

Industrial coating processes depend on sound adhesion of the coating/deposit to the substrate to be successful. Anything less can jeopardize the application. In electroplating, how well the deposit "sticks" or doesn't, is actually determined before the plating operation begins. It is imperative that both procedural and equipment requirements are closely followed.

Electroplating requires the removal of surface contaminants such as dirt, oil, smear metal, residual carbon and oxides from the substrate to develop the best adhesion. The SIFCO Process® uses dedicated electrochemical processing steps to remove these deterrents.

To ensure this is accomplished, listed are four areas critical to adhesion and the ultimate success of your application:

- Following appropriate preparatory instructions as determined by base material in a continuous/fluid manner.
- Use of recommended anode material & design for both preparatory & plating anodes.
- Use of recommended anode wraps on both preparatory & plating anodes.
- Following the plating solution Tech Data Sheet instructions for voltage, anode-to-cathode speed, preplating & prewetting requirements.

Please review current in-house practices to ensure compliance with the SIFCO Process Instruction Manual. To receive the most recent manual, please call Customer Service at 1.800.765.4131.

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**NEW Innovative Solutions**  
***Excellent Cadmium & Chromium Alternatives***

SIFCO ASC is continuously developing new deposits and coatings, providing the highest quality surface enhancement materials that meet industry's ever changing requirements.

Tin-Zinc 4019 is our new environmentally-friendly cadmium alternative. The enhanced solution provides excellent corrosion protection, good lubricity and does not require hydrogen embrittlement relief bake after plating. This formulation also meets the requirements of AMS 2451/10.

[Technical Data on Tin-Zinc 4019.](#)

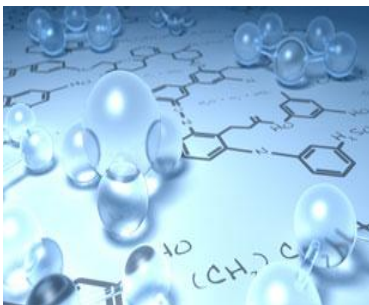
Nickel-Tungsten 5711 is our hexavalent-free chrome alternative. The solution is one of the hardest chromium alternatives available today! It meets the hydrogen embrittlement characteristics of ASTM F519 without a relief bake!

[Technical Data on Nickel-Tungsten 5711.](#)

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## SIFCO ASC Maintains REACH Awareness



A key SIFCO ASC geographic area is Europe, with operations in France, Sweden and the UK. We are proactive in complying with Europe's implementation of REACH by reaching out to suppliers to ensure their chemicals and articles will be available to SIFCO ASC and its customers. SIFCO ASC continues to provide its customers information via Article 33 declarations on the presence of substances of high concern in articles.

A principle of REACH is to identify a substitute for a chemical which requires authorization. SIFCO ASC researched several new coatings for use in-lieu of REACH restricted and other hazardous materials. We developed substitutes for hexavalent chromium and cadmium. The substitutes include a hard nickel-tungsten deposit, zinc-nickel and tin-zinc alloys, and trivalent chromium conversion coatings.

SIFCO ASC will present the new selective plated nickel-tungsten coating to industry at AeroMat 2012 and SUR/FIN 2012 conferences in June.

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## SIFCO Industries Expands to the West Coast

SIFCO Industries, Inc. announces the acquisition of the business and related assets of GEL Industries, Inc. (DBA Quality Aluminum Forge) ("QAF"), an aerospace component supplier located in Orange, California.

The QAF business is principally known as a supplier of precision forged and machined aerospace components for use on a broad range of both commercial and military aircraft models. QAF is a supplier to both the aerospace OEM and aerospace aftermarket segments. This acquisition enhances SIFCO's product offering by adding a new metal capability and increasing the company's finish machining capability in both of its main market segments - aerospace and energy.

SIFCO Chief Executive Officer, Michael S. Lipscomb, said: *"I am very pleased to announce the acquisition of the QAF business. This is SIFCO's second major addition within the past 12 months and has again added an immediately accretive business to the core of our strategic focus. QAF will add aluminum forging and machining capability to SIFCO's broad offerings in the commercial aerospace and energy markets. SIFCO is looking forward to the successful integration of QAF and welcomes our new employees, customers and suppliers to the SIFCO family"*.

[Click here](#) for more information about the acquisition.

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## ASK SAFETY BOB

***Have questions about the safe use of SIFCO products?*** You can now ask Safety Bob about ventilation, storage, handling, personal protective equipment or anything else. [Click Here](#) to send your question to Safety Bob.

***If your question is used in a future newsletter we'll send you a FREE Jump Drive!***

***"What kind of ventilation do I need in my selective plating work area?"***

**ANSWER:** Selective electro-plating should be done in exhaust-ventilated workstations where the operator and other workers are safe from possible chemical exposure. During the plating process, solutions may generate gases and fumes that are hazardous to workers. These fumes can be controlled with local exhaust ventilation. The local exhaust ventilation system is required to meet OSHA's Permissible Exposure Limit, (PEL) and Short-Term Exposure Limit (STEL). These exposure limits are provided on Section Eight (8) of our MSDS.

Effective exhaust ventilation can be **temporarily** verified with smoke. I recommend you have a Certified Industrial Hygienist (CIH) survey your plating areas and conduct certified employee air monitoring. The CIH must use certified airflow monitoring and measuring equipment. The air monitoring results must be sent to a certified laboratory. Certified employee air monitoring is used to determine and document if any harmful fumes or mists are being generated during the plating operation. This will also ensure compliance with governmental regulations and established permissible exposure limits.

Please don't hesitate to contact Safety Bob (Bob Williams) at (216) 524-0099 or [rwilliams@sifcoasc.com](mailto:rwilliams@sifcoasc.com) if you have any questions or concerns.

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## **INTERNATIONAL NEWS**

### ***SIFCO ASC's Success and Growth in International Markets***

#### **CHINA**

##### ***New Chinese Safety Data Sheet Regulations***

China has enforced the regulations on Safe Management of Hazardous Chemicals, which require all companies in Chemical sales to provide Safety Data Sheets (SDS) in Chinese, complying with the China Globally Harmonized System (GHS). To comply with the regulations, SIFCO ASC is now providing Chinese Safety Data Sheet (SDS) and Labels for its plating solutions. For information on SIFCO products & services in China please contact SIFCO manufacturing representative, Hanotech Suzhou at [info@hanotech-group.com](mailto:info@hanotech-group.com)

#### **COLUMBIA**

##### ***Avianca added Service Capabilities with SIFCO Process®***

Avianca (Aerovías Nacionales de Colombia S.A., currently Aerovías del Continente Americano S.A.), the leading airline in Latin America, is expanding their service capabilities by adding the SIFCO Process® of Cadmium Plating and Anodizing to its Maintenance and Repair facility in Bogota. The decision was made right after Avianca Engineering and Service Team Leaders visited the Aceros Forjados (SIFCO's partner in Colombia) workshop where they learned about the SIFCO Process®. The Avianca Engineering and Service Team said that they're very impressed with the SIFCO Process®. For information on SIFCO products & services in Colombia please contact SIFCO Partner, Aceros Forjados at [Jorge.pazmino@acerosforjados.com](mailto:Jorge.pazmino@acerosforjados.com)

#### **INDIA**

##### ***MAS GMR Utilizes SIFCO Process® for MRO Services***

MAS GMR Aerospace Engineering Company, based in Hyderabad, India is a joint venture of GMR Hyderabad International Airport Ltd. and Malaysian Aerospace Engineering Sdn Bhd. It is now offering SIFCO Process® as part of its maintenance, repair, and overhaul services. For information on SIFCO products & services in India please contact SIFCO manufacturing representative, Enphiniti at [anantha.hebbale@enphiniti.com](mailto:anantha.hebbale@enphiniti.com)

## INDONESIA

### **Boeing 747 AOG Repair with SIFCO Process® Nickel High Speed 5644**

SIFCO ASC's service shop in Jakarta, Indonesia has successfully performed a defect repair on a landing gear cylinder strut of Boeing 747 200 series aircraft. It was found that a chrome defect to the gear cylinder strut in form of loss of plating separation. The repair was performed using SIFCO Process® Nickel High Speed 5644, which is a low hydrogen embrittlement with no post bake required.

For information on SIFCO products & services in Indonesia please contact SIFCO Partner, PT. Rep Sal Indo at [repsal@centrin.net.id](mailto:repsal@centrin.net.id)

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## **SIFCO ASC 2012 TRAINING PROGRAM**

### ***Classes held at our Independence, Ohio facility***

SIFCO is proud to announce our 2012 schedule, which includes four, three-day basic brush plating classes and five, two-day classes specifically for basic cadmium plating and cadmium operator recertification. All classes will be **held at our Independence, Ohio facility**.

We can accept up to 10 students per class on a first come - first serve basis. A purchase order is required to lock in a date - see below for more details.

#### **2012 Class Schedule**

January 17 - 18: Cadmium Only

February 14 - 16: Basic

March 13 & 14: Cadmium Only

April 17 - 19: Basic

May 15 & 16: Cadmium Only

June 12 - 13: Basic

August 14 & 15: Cadmium Only

September 11 - 13: Basic

October 16 & 17: Cadmium Only

The training fee is \$315 per student/per day of training.

**Cadmium Only Class is \$630 per student**

**Basic Selective Plating is \$945 per student**

All attendees are required to complete a "Pre-Class Study Program" that includes viewing a set of prerecorded, on-line presentations and the submission of a mandatory "Pre-Class Quiz."

*Completion of this preparatory study material is a prerequisite to attending either the Basic Selective Plating Class or the Cadmium Class. The purpose of this course is to let you prepare, at your own pace, in advance of the training session at our Independence, Ohio facility.*

Once you have reviewed the material and then submitted and passed the quiz, you will have a good understanding of the SIFCO Process® of selective

plating and will be ready for the intensive hands-on session.

**To lock-in a training date, we must receive your completed quiz.**

We will then contact you to secure a purchase order or credit card number.

**On-Site Training Classes**

SIFCO continues to offer customized, on-site training classes that focus on your specific needs. Typical class length ranges from 2 to 5 days depending upon the complexity of the application and the number of students to be trained. The cost of on-site training consists of the following:

- \$1,575 per day of training
- Plus \$126 per student
- Plus a \$525 travel labor charge
- And actual travel expenses incurred

Contact the Inside Sales and Support Department to discuss your specific needs, pricing and availability.

**CD Cadmium Recertification Program**

Our CD based Cadmium Recertification Program is \$525 for up to 4 people. Add \$130 for each additional person. A purchase order is required for us to send the recertification kits.

[Click here](#) for complete information about our Training Programs.

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## SHORT TAKES

**Congratulations to SIFCO Connecticut!** Through a great team effort, our SIFCO ASC facility, located in E. Windsor, Connecticut, has successfully completed the Nadcap audit and remain accredited to AC7108. This is an outstanding accomplishment that demonstrates the team's high level of commitment to quality.

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**Lillian Smereczynsky**, Quality Manager, was named to Quality Progress magazine's "40 New Voices of Quality" list, which recognizes individuals under 40 who are making a difference in their organizations.

"It's an honor to be named as one of the top 40 quality professionals under 40," Smereczynsky said. "Quality is important worldwide as it helps improve products and services, often saving companies significant amounts of money. As a result, quality makes our businesses, our organizations, and our world a better place."

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## HELI EXPO 2012



Come Visit the **SIFCO ASC exhibit (Booth 6439)** at the HELI-EXPO 2012! The exhibits are open February 12-14 at the Dallas Convention Center. We will showcase our Cadmium Kits and supply information on our new "green" solutions, Nickel-Tungsten & Tin-Zinc!

Dr. Sid Clouser, R&D Manager of SIFCO ASC, will be speaking about our new solutions on February 12, from 11:00-Noon in meeting room C-145. For more information about our products and services, please contact us at [info@sifcoasc.com](mailto:info@sifcoasc.com).

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