

METALAST INTERNATIONAL
COMPANY AND PRODUCT BRIEFING

DOD Metal Finishing Workshop May, 2007

METALAST INTERNATIONAL, LLC
"Metal Finishing's Solutions Provider"
www.metalast.com

CORPORATE SUMMARY

METALAST International, LLC ("METALAST" or the "Company") is a business-to-business solutions provider to the metal finishing industry. It offers a wide variety of chemical, equipment, software, process and engineering services to both metal finishers and manufacturers. METALAST®, located in Minden Nevada (40 miles South of Reno), has the only Technical Center in the world dedicated to product development for and support to the finishing industry. METALAST offers many new cutting edge technologies outlined below to improve quality and consistency in any finishing application. The Company has provided R&D services and metal finishing related technical support to many of the Fortune 500. A few of METALAST's clients include the United States Navy, United States Marine Corp, Goodrich Aerospace, Raytheon, Visteon Automotive, Ford Motors, DaimlerChrysler, Johnson & Johnson, Motorola, Pitney Bowes, Applied Materials, Parker Hannifin and Medtronic. The Company was the first chemical company selected by the United States Department of Defense, United States Navy to commercialize and bring to market a replacement for the carcinogen Hexavalent Chromate called TCP-HF™ ("Hex Free"). METALAST offers the following unique products and services.

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- 1) Chemical Solutions: METALAST's most recent product offering TCP-HF is a Trivalent based coating aimed at replacing Hexavalent Chromates. Hexavalent Chromates have been banned in the automotive world as a carcinogen with all other industries quickly following suit. TCP-HF was developed and patented by the US Navy after failing to qualify existing coating replacements due to high cost and inferior performance. METALAST has been awarded the rights to market and support TCP under a licensing agreement. TCP-HF out performs all other trivalent products tested by two to three times the corrosion protection, coating durability, paint and adhesive bonding, at a cost comparable to hexavalent chromates. The product was developed for use on aluminum but has been tested and proven effective on a variety of metals including zinc and zinc alloy plating. TCP-HF is also user friendly applied at room temperature with no odor and a PH close to neutral. The Navy tested the product on entire airframes for the F/A 18 as well as S3 tail sections. The planes were flown for an extended period with excellent long-term results. The product has also been tested and approved for the Exterior framework of the United States Army Amphibious assault vehicle being manufactured by General Dynamics at GDDS Virginia. Motorola is also in the final test procedures and plans on approving TCP-HF for a new data transfer box application. Of twenty products tested TCP outperformed all by nearly twice the neutral salt spray corrosion testing. METALAST also supplies a full line of aluminum and anodizing chemistries, including a wide range of organic dyes, as well as TCP-HF. METALAST is also proud to launch it's new line of " Green " fire retardant BDP products.

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- 2) Hardware Solutions: METALAST has designed and markets the METALAST JobPro computer for control repeatability and verification of any electrolytic applied process. The Job Pro is an affordable, off the shelf computerized controller that interfaces with a power supply to help facilitate greater consistency, process repeatability and verification, and product quality. The JobPro can easily be programmed to run multiple strategies from a menu so as to insure consistency from run to run. The Naval Air Depot in Jacksonville Florida, the Marine Logistics Center in Albany Georgia, Applied Materials and many others have installed JobPro's and are seeing the benefits of primary bath process control. The Department of Navy wrote and published an unsolicited article for Currents magazine Winter 2004 issue praising the benefits of the METALAST JobPro since installation in 2003. METALAST also just introduced a total line control hardware and software package called the AnoTrack™ system. AnoTrack is a fully programmable solution for process tracking, alarming, and reporting of products through a manual finishing process. The system uses wireless data transfer of all line inputs through an operator held PDA for each load. Actual run data for each load is tracked and reported to a base station computer and database. METALAST can also provide turnkey process lines for all wet processing applications.
- 3) Software Solutions: METALAST offers ChemPro™ software for complete chemical and laboratory inventory and management. The software is designed for ease of compliance with ISO, QS and NADCAP requirements. ChemPro is designed to control and automate all chemistries and wet processes. ChemPro ensures consistent, repeatable application of best practices and digitizes all activities, computations and data logging to insure procedures are recorded and consistently executed. METALAST also offers PROCESS PRO facility efficiency and costing software. Through the development of baseline information process costing can be established and controlled. The product can then be used to evaluate possible changes and the impact to bottom line and cost. PROCESS PRO is an ideal tool for cost analysis pricing and predetermining R.O.I. The Department of Navy, ALCOA, the Air Force, among others, have been using the METALAST software products for process improvement

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- 4) Licensed Solutions: METALAST offers a unique licensed process for anodizing exclusively to captive anodizers worldwide. The process uses a combination of an additive for the anodize bath and process control to produce an advanced anodize surface. Because the process runs at higher current density than conventional anodizing the process can be done in much shorter times. The process has been proven to produce a harder, more dense and consistent coating. Due to the control and ability to hold tolerances as well as the property improvements the METALAST Anodize process can be used on applications where conventional anodizing fails. METALAST most recently licensed the technology to VISTEON automotive for use on the revolutionary slip in tube ("SIT") driveshaft for the 2005 Jeep Grand Cherokee. The METALAST process was required to pass tests necessary to convert this part from steel to aluminum for the first time ever. METALAST is jointly listed with VISTEON Automotive in the U. S. patent for this particular application.
- 5) Turnkey Solutions: METALAST has formally partnered with CH2M Hill Company, one of the largest and most respected engineering firms in the world providing turnkey engineering, architectural and manufacturing support worldwide. Through this partnership METALAST can offer complete ground up permitting, design, facility build, equipment and process services. Because full responsibility is taken by one company project delivery is shortened, quality is assured, and project costs are reduced.

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METALAST TCP-HF

METALAST TCP-HF Anodize Seal is a trivalent chromium alternative to existing Chromate technologies, The original TCP formulation was developed and patented by the US Navy and rights too improve and commercialize were given to METALAST. METALAST's TCP-HF is a modified version of the original formulation with advanced stability and performance characteristics.

METALAST TCP-HF has passed and been listed on the current QPL 81706B as a replacement for hex products in both spray and immersion applications. With proper preparation the coating can meet salt spray requirements of 336 hours plus an all alloys.

METALAST TCP-HF provides equivalent or enhanced performance when compared with ANY OTHER Non hex products! 300 hours plus salt spray results, excellent surface bonding capabilities, superb weld ability, and excellent low resistance electrical properties make the product an excellent choice in most applications.

METALAST TCP_HF is green, environmentally friendly material with no hazardous environmental impact to your waste stream. No fume scrubber or ventilation is required saving additional heat and energy costs.

METALAST continues to work on product improvement and is in final testing of an enhancement additive to add additional performance and flexibility of the product when running difficult alloys (2000 series), or to meet extreme requirements. The new TCP-HF (EPA) , extended protection additive will allow customers to meet the 336 hour QPL salt spray testing without changes to their existing clean, etch or prep cycle. Product launch is scheduled for fourth quarter 2007.

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METALAST TCP-HF

Environmentally Friendly, Low Cost Anodize Seal

METALAST TCP-HF Anodize Seal is a trivalent chromium alternative to chromic acid, nickel acetate, nickel fluoride, and hot water seals. METALAST TCP-HF is used at room temperature, at low concentrations and with short immersion times. The TCP-HF material costs are about half the energy costs of heating conventional seals thus it is significantly less expensive than all alternatives even hot water!

You'll save money on energy, but the savings don't stop there—METALAST TCP-HF works with immersion times of 2-5 minutes compared to 20-30 minute times for conventional seals. Thus less seal tanks are required with additional loads per hour through the process! TCP-HF has the ability to meet the requirements of all current seal processes meaning that different seal tanks do not have to be used to meet various needs.

METALAST TCP-HF provides equivalent or enhanced performance when compared with ANY OTHER SEAL! 3000 hours plus salt spray results, excellent surface bonding capabilities, superb weld ability, all with no visual deterioration to the anodize surface.

METALAST TCP_HF is green, environmentally friendly material with no hazardous environmental impact to your waste stream. No fume scrubber or ventilation is required saving additional heat and energy costs.

Testing confirmed in the following anodize processes:

- Type II, Sulfuric Acid Anodize
- Type IIB, Thin Film Sulfuric Acid Anodize
- Phosphoric Acid Anodize
- Type II with and without AA-200
- Type II, Dyed
- Type II, Bright Dipped
- Type II, Electrolytic Color

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- Type III
- Type III, Dyed

METALAST TCP-HF Exceeds the Following Corrosion Specifications:

- 336 hrs for Types I, IB, IC, II, IIB (Mil Spec 8625F)
- 1000 hours for class II (0.4mil thickness), (AAMA 611-98)
- 3000 hours for class III (0.7mil thickness)

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METALAST's New "Green" Chemical offerings

PRODUCT DESCRIPTION: METALAST owns the worldwide rights, specifically in the metals, plastics and textile industries, to manufacture, distribute and sell a patented and proprietary design flame retardant and barrier technology ("METALAST BDP™") for fire safety that will have significant market advantages over its competition, primarily due to its unique and superior fume suppressing capabilities. Barrier Dynamics Products are available in 10 different chemical based forms providing a wide range of capability and versatility in the areas of metals, plastics, textile, synthetic fabrics, paper and building materials, including structural steel, wood, insulation and sheet rock.

"GREEN" TECHNOLOGY:

METALAST BDP™ are all new technologies and are basically inorganic chemistry, containing no VOC's (volatile organic compounds) or hazardous materials. They are "Green" technologies, providing low cost protection at temperatures exceeding 1,800° F.

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