

EnviroServe Chemicals, Inc.



***Your Single Source
Chemical Supplier for Your
Spray Wand Applications***



***We know what it takes:
Products, Service, Support and Equipment***

EnviroServe Chemicals: *Expertly qualified to be your single source industrial chemical supplier!*

EnviroServe has been a service-oriented supplier of industrial chemical products since 1996. No other company can match our wide range of products, service, support, and equipment!

CLEANERS AND DEGREASERS

Our **EnviroClean** and **Solve It** product lines were developed to clean the most tenacious soils. We have a wide variety of alkaline cleaners for practically any application.

EnviroServe Chemicals has a cleaning product that can meet your toughest cleaning requirements - such as stubborn oils, grease, carbon-based soils, fatty acid soils, waxy corrosion inhibitors, and light corrosion.

We have a full line of multi-metal safe cleaners as well as products developed exclusively for ferrous alloys. The industry has proven our products to be highly effective in all of these types of operations.

We offer a wide variety of alkaline cleaners designed to meet the most challenging industry needs. Most products operate economically at low concentrations and temperatures. Products are moderate foaming and are ideally suited for use with automatic control equipment.

Alkaline cleaners have long been the prevailing choice in the paint pretreatment industry. These cleaners are designed to remove the toughest, most tenacious soils with a lower concentration of product. Alkaline cleaners are the best type of cleaners in operations where soil loads fluctuate from day to day. These cleaners remove a variety of soils in a very cost effective manner. Alkaline cleaners in the market today operate at temperatures of between 120 and 160 °F.

Neutral pH cleaners are an ideal choice when cleaning light soils. These cleaners are based on surfactants that are designed to "lift" the soils off the parts without using aggressive caustic cleaners. That makes them more environmentally friendly, while at the same time making them safer for the operators than conventional cleaners.

Innovations such as low conductivity cleaners, neutral pH cleaners and rust removers will increase your plant safety without adversely effecting productivity.

We also have products that are designed for use in multi-stage spray systems, agitated immersions, soak tanks, and belt washers.



Visit our Website at www.enviroservicechemicals.com

CONVERSION COATINGS

Phosphatizing helps prevent corrosion and prepares the metal surface for improved paint adhesion. A spray wand can be as a simple one-stage cleaner/phosphatizer operation for large, low-volume parts that do not require a high degree of corrosion resistance. On the other hand, they can also be used in more complex operations using cleaners, and iron phosphates that provide much better corrosion and paint adhesion results.

The iron phosphate coating inhibits corrosion and improves the adhesion and durability of paint; when applied to most metals by means of steam or hot water, high pressure spray wand applications.

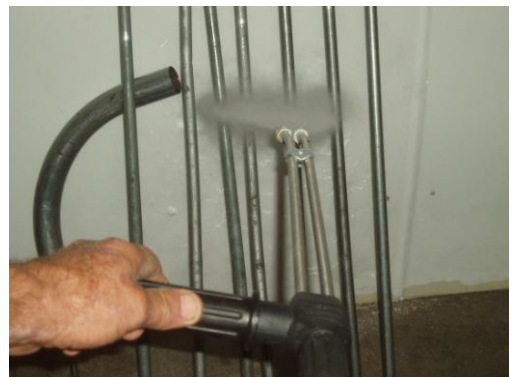
Our cleaner coater series of products simultaneously cleans the surface; while producing and depositing a highly uniform iron phosphate coating. These products provide excellent cleaning of light to medium shop soils; drawing compounds; rust preventatives; and water soluble machining fluids. Typical contact times will vary depending on the severity of soils and types of metals being cleaned and temperature.

Our stand alone coater series of products are used to provide a iron phosphate coating on parts that have been previously cleaned with our **EnviroClean** or **Solve It** products. A rinse must be used between the degreasing process and the iron phosphate process.

Our **EnviroPhos** series will produce a tightly bonded iron phosphate conversion coating on steel and iron parts while slightly etching zinc, galvanized and aluminum parts. We have products that are very effective on cold and hot rolled steel, as well as cast iron parts as well. This series of products contain both our cleaner coater products and the stand alone coater products as described above. Optimum corrosion resistance results may be obtained by the use of a steam or hot water, high pressure wand system when using these products. These products will lay down coatings comparable to what someone might expect to find in more elaborate washer systems.

EnviroKote series of products are the newest technological advance spray wand chemicals on the market today. They are our non-phosphate and low phosphate inorganic conversion coatings. These tested and field proven products deliver exceptional results and in most cases enhance corrosion resistance and paint adhesion durability; over conventional iron phosphate systems. These new coatings contain NO regulated heavy metals and they significantly reduce phosphate from the spray wand process. These products can be used with no heat.

EnviroServe Chemicals' wide surface pretreatment product line, along with the technical expertise of our sales and technical staff, enables us to custom create customer-specific pretreatment packages when necessary.



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TESTING CAPABILITIES

EnviroServe Chemicals' R&D laboratory is very well equipped and staffed with highly qualified chemists and engineers to carry out research and product development, equipment design and to perform customer required testing as needed. Below is a partial list of the equipment and testing available for our customer's benefits!

Equipment

Hot Water High Pressure Spray Wand System
In-house 7 Stage Pilot Spray Washer
Agitated Immersion Washers
Powder Paint Booth
Industrial Cure Oven
Liquid Paint System
Salt Spray Cabinets
Humidity Chambers
Electronic Analytical Balances
pH and Conductivity Meters

Testing

Conversion Coating Weights
Paint Adhesion Testing & Measuring
Dry Film Thickness
Impact Test
Conical Mandrel Test
Film Hardness Test
Salt Spray Test
Total Dissolved Solids
Total and Active Acid or Alkalinity Tests
Scanning Electron Atomic Force Micrograph
(at NCSU and Duke University)

EQUIPMENT

EnviroServe Chemicals can supply a wide range of manually and automatically controlled metering devices to ensure effective control of your pretreatment operating parameters. Consult your **EnviroServe Chemicals** representative for more details.

For further information, recommendations and other regulatory information please refer to the individual Product Data and Material Safety Data Sheets and/or contact **EnviroServe Chemicals**.

Find out how **EnviroServe Chemicals** can improve your pretreatment processes, reduce your energy costs and provide a better solution for your conversion coating needs.

- Call us at (910) 892-1791
- Visit us at www.enviroservechemicals.com
- E-mail us at sales@enviroserveinc.com

**Let Us Be Your Single Source Service-Oriented
Paint Pretreatment Chemical Supplier**

EnviroServe Chemicals, Inc

An ISO 9001 : 2000 Certified Company

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