



Distribution

Formulation

Blending

Packaging

**Better Chemistry.** Better Business.

## Chemical Solutions for Military Applications

As the nation's most experienced chemical distributor, Hubbard-Hall brings expertise to the intersection of chemistry and industry. Founded in 1849, Hubbard-Hall Inc. is based in Waterbury, CT and reaches internationally as well as within the U.S. Hubbard-Hall is SBA self certified as a small business concern.

ISO 9001:2008; Certification # 84491-IS4 exp. 8/28/2015	D-U-N-S®: 05-531-0759 NAICS Code: 325998
ISO registrar: NSF-ISR	CAGE Code: 94853

### What We Do

- Chemicals: Distribute over 5,000 commodity chemicals
- Surface finishing products for industrial manufacturing and remanufacturing applications for military, aerospace, defense vehicles, components and other hardware
- Chemical Services: Technical, value-added process support services including training, lab analysis and process improvement audits

### Product Lines Available

- Aquease™** Aqueous cleaners
- AquaMill™** Mass finishing
- Aquapure™** Wastewater treatment
- Aquastrip** Coatings and CARC strip
- Black Magic™** Black oxide
- Emerald HD** DfE recognized cleaners
- Enviroguard** Aerospace solvent blends
- Hubtron PB** (stabilized nPB) Solvent cleaners, SNAP/EPA approved
- Laser Guard** Brighten copper and brass
- Lusterclean™** Heavy alkaline degreaser/deruster
- Metal Guard®** Aqueous and oil based rust inhibitors
- Mi-Clean™** Surface cleaners
- Mi-Phos™** Phosphates for iron, zinc and manganese
- Military Deruster** Specifically formulated for Military Apps
- Stripol™** Metal Strippers

### Customers (Sample List)

Anniston Army Depot	Maverick Arms
ATK Alliant Lake City	Pratt & Whitney
Boeing Company	Raytheon
Colt Companies	Red River Army Depot
FN Manufacturing	Remington Arms Company
General Dynamics	Rockford Acromatics
Lockheed Martin	Sikorsky Aircraft
Marlin Firearms	United Avionics Incorporated

# MIL Spec Product Offerings\*

## Phosphates

### Ferrous Metal Surfaces and Pre-Treatment for Organic Coatings

- TT-C-490E Type I: M-Phos™ Z-3
- TT-C-490E Type II: M-Phos™ 26, Hubfos 12-S and Hubfos 150
- TT-C-490E Type V: Mi-Phos™ Z-10

## Black Oxide Coatings

### Ferrous Metals

- MIL-DTL-13924D Class I: Black Magic™ Infusion
- MIL-DTL-13924D Class IV: Black Magic™ SSL

### Copper Alloys

- MIL-F-195D: Black Magic™ CBL

## Phosphate Coatings

### Phosphate Coating, Heavy, Manganese or Zinc Based

- A-A59267 Type Z / MIL-DTL-16232G Type Z: Mi-Phos™ Z-2
- A-A59267 Type M / MIL-DTL-16232G Type M: Mi-Phos™ M-5

\* This is only a sample of the products applicable for military applications. If there is another application or product line you are looking for please contact Hubbard-Hall

## Rust Preventative

### Corrosion Prevention Compound, Solvent Cutback, Cold-Application

- MIL-PRF-16173E Grade 3: Metal Guard® 100, 400, 500 Series

## Chemical Conversion Coatings

### Aluminum Alloys

- MIL-C-5541E Class 3: Hallcoat A 1

## Heat Treating Salts

- MIL-S-10699B Class 1: Quick Cure 275
- MIL-S-10699B Class 2: Quick Cure 420
- MIL-S-10699B Class 5: Neutral Salt B
- MIL-S-10699B Class 8: Neutral Salt HH

## Our people. Your problem solvers.

Expertise you can trust. 32% of Hubbard-Hall associates are in tech support, customer service or sales. This means that you get answers fast while the rest of our team gets your order delivered on time and in spec.

[HubbardHall.com](http://HubbardHall.com)

HH-0824

 Surface Cleaners

 Metal Finishing

 Wastewater Treatment

Chemistry and Expertise for  
Manufacturing's Toughest Problems



563 South Leonard Street, Waterbury, CT 06708  
Phone: (800) 648-3412 · [HubbardHall.com](http://HubbardHall.com)