

Designed for light and heavy-duty applications, our copper cleaners reduce steps and costs by as much as 50%.

**Better Chemistry.** Better Business.

# Brass Ammunition Applications

Hubbard-Hall brings value that other chemical suppliers simply can't. Our experience dates back to before the Civil War, formulating process chemistry for various brass components from buttons to bullets.

Our extensive product portfolio and expertise enables us to optimize the interactions between processes and not treat them as independent functions. This results in true facility-wide cost savings, improved safety, higher quality products and better throughput.



Hubbard-Hall's copper cleaners combine detergents and additives to effectively remove soils and extrusion contaminants without marring the surface of the metal. These cleaners combine cleaning and protecting agents into a single solution.

## Why Hubbard-Hall

- Over 170 years of experience with brass finishing
- Dedicated technical support
- 3 technical labs for parts processing and testing
- Portfolio of over 2,400 customers who range from Fortune 100 OEMs to boutique metal finishers
- Specifically designed lubes, cleaners/ colorants and wastewater products for brass ammunition



**Our history. Growing.  
Prospering. Evolving.**

Founded in 1849 as  
Apothecaries Hall

Imagine all that has happened since... economic booms and busts, world wars, lunar landings, rock & roll, a pandemic and incredible advances in manufacturing.

**Today, Hubbard-Hall is the digital leader in metal finishing.**

Customers can connect with us via our eCommerce site, customer portal and chat. Want to learn from our experts? Scan the QR code to tune into our podcast **Seen & Solved.**



**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**

## Featured Drawn Brass Ammunition Products

### Clean and Brighten- Aquaease and Lusterbrite

- Formulated acidic and alkaline cleaners.
- Cleaning solutions for spray, soak, ultrasonics, and vibratory processes.
- Non-chelated- helps reduce wastewater treatment
- Lubricant and tarnish removal in one efficient step
- Low foaming

### Tarnish Inhibition and Slip Control- Laserguard and Metal Guard

- Chrome-free tarnish prevention
- Maintain brightness
- Reduce friction when processing
- Increase adhesion and durability on bare and blackened metal surfaces
- Rust prevention for final packaging

### Metal Coloring

- Full product line for black oxide conversion on all metals; cleaners, activators, colorants, and seals.

### Lubricant – AquaLube

- Prevents tarnish (oxidation)
- Improves surface quality
- Provides higher manufacturing output and ease of cleaning

### Wastewater Treatment – AquaPure

- Full product line includes precipitants, coagulants, flocculants, odor control, and defoamers.
- Wastewater technical support and training

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**Better Results.  
Less Chemistry.™**



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



**Cleaning**  
the Hard to Clean



**Finishing**  
the Hard to Finish



**Treating**  
the Hard to Treat