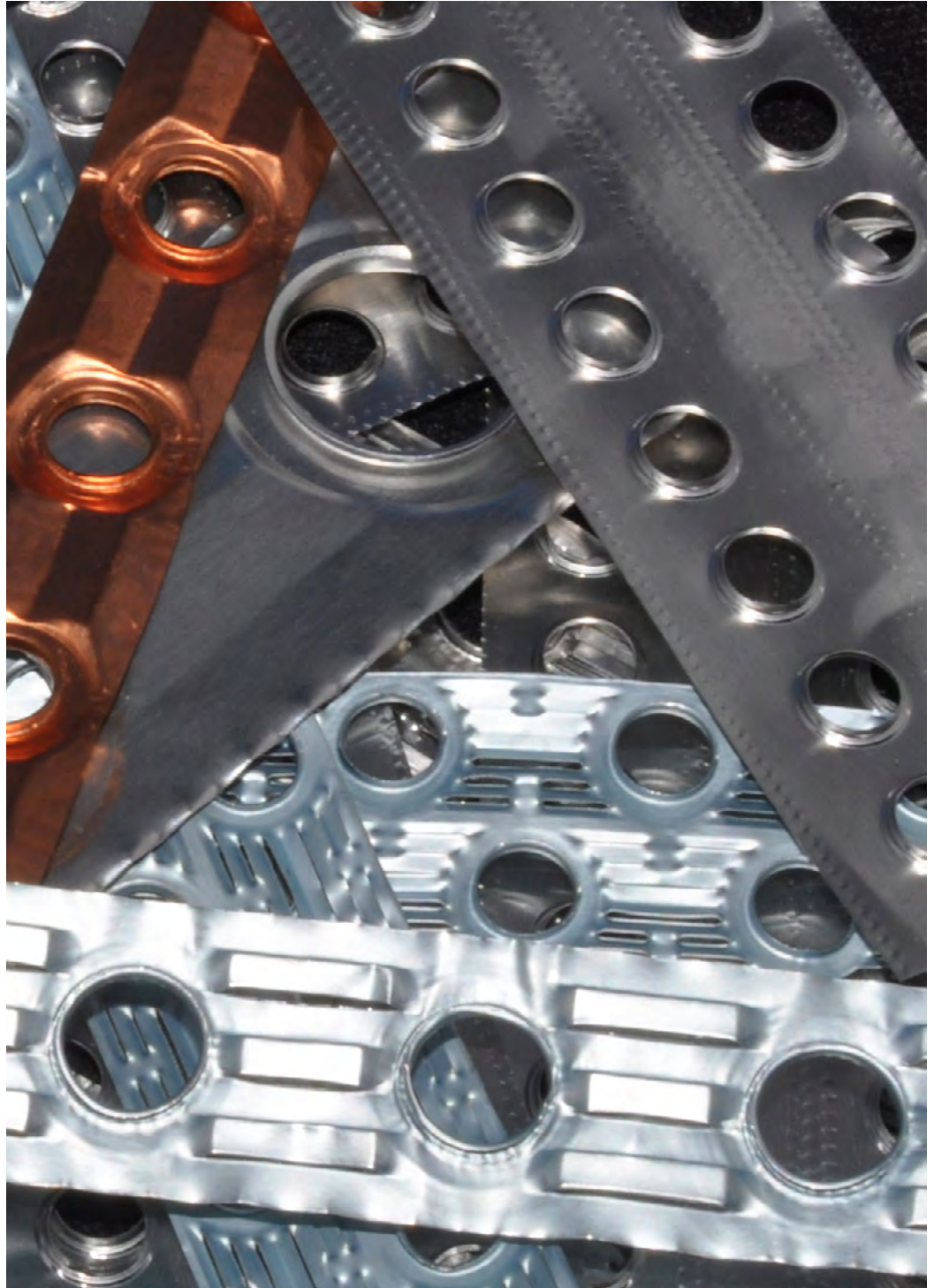


ArrowHVAC

Fluids for the Air Conditioning &
Heat Transfer Industry

ArrowHVAC

Advanced
Technology



Fin Stamping

Zero VOC Fluids

**Tube Bending &
Expanding**

Return Bends

Cleaners

Heat Exchangers

Sheet Metal Stamping

Coil Conditioning

**Mechanical Application
Control**

**Water Leak Testing
(Filter System)**

**CHEM
ARROW**
CORPORATION

Leading Manufacturer of Fin Stamping Lubricants

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ADVANCED TECHNOLOGY

Chem Arrow's cutting edge technology has made our company the leading supplier to the global HVAC industry. With over 35 years of continued product improvement, Chem Arrow's ArrowHVAC line of fluids, designed specifically for fin stamping, tube bending, expanding and tube return bend formation, is the choice of many multinational manufacturers.

Formulating fluids to meet the demands of today's modern standards and requirements involves many challenges which are continually changing. Chem Arrow is focused on providing fluids which meet and exceed these exacting specifications.



ENVIRONMENTAL RESPONSIBILITY

Our design criteria is focused on maximizing the efficiency of production while minimizing waste and lowering VOC's. Our product offering includes qualified fluids designed to minimize, and in some cases negate, the environmental impact of VOC's completely.

UNIQUE PRODUCT CHARACTERISTICS

Chem Arrow has developed the ArrowHVAC product line using the most innovative additive materials in the market. This allows us to offer products which have unique wetting capabilities when required, excellent corrosion protection, braising compatibility, paint and plastics compatibility, improved tool and die life, and full compatibility with all the modern refrigerants.

EXPERIENCE

Our technical team has many years of experience in the industry and is on hand to offer advice on all matters including correctly specifying the most efficient fluids for the job and tips on how to minimize fluid usage and waste.

GLOBAL SUPPLY & SUPPORT

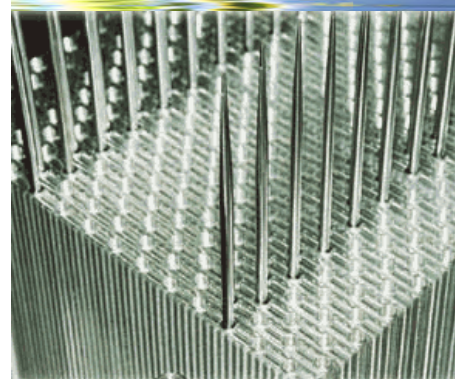
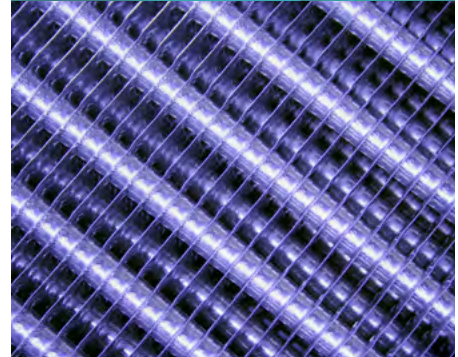
From our manufacturing centers across the USA, Mexico, Germany, and Malaysia, Chem Arrow can handle your global delivery requirements while providing local service.

INDEPENDENT LABORATORY TESTING

Our fluids are tested to the exacting and demanding standards required by the global HVAC industry and confirmed by independent laboratories.

Testing includes:

- VOC Emission
- Refrigerant Compatibility
- Water Dispersion Properties
- Paint Adhesion Properties
- Punch Die Life
- Freeze Thaw
- Formicary Corrosion
- Hydrophilic Fin Surface (Wettability)
- Plastic Compatibility
- Coated Fin Stock Compatibility
- Lubricity & Bio Stability
- Reduced Need For Washing Coils



Fin Stamping

Zero VOC Fluids

Tube Bending & Expanding

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Mechanical Application Control

Water Leak Testing (Filter System)

APPLICATION SYSTEMS

The need to continually improve performance and address higher environmental standards have made the use of applicators a necessity. The Arrow-HVAC lubricants are formulated to work with the leading applicators on the market today, including Chem Arrow's own wiper unit.

The Chem Arrow Wiper System is designed to control the amount of lubricant applied to both the top and bottom of the fin stock. This system is inexpensive and ideal for controlling application rates of high performance low and zero VOC lubes. It precisely controls the lubricant film thickness on the fin stock going into the press. High performance lubricants can allow reduced or, in some cases, the elimination of the internal lubricant sprayers used to protect the piercing dies. The use of low or no VOC high performance lubricants reduces overall lubricant costs. They minimize or eliminate solvent emissions, while providing outstanding tool life and quality fins. Each unit is specifically designed to fit almost any fin stamping machine. The unit is installed in the lube tank and used in conjunction with the existing pinch rollers.



Applicators offer the following advantages:

- Reduces lube usage up to 50%
- Use with low or zero VOC lubes
- Extends water test tank clarity
- Reduces washing process
- Reduces safety issues
- Improves air quality
- Minimizes waste
- Minimizes brazing issues
- Saves significant cost
- Improves tool & die life

Chem Arrow Corporation

13643 Live Oak Ln.
Irwindale, CA 91706
Tel: (626) 358-2255
Fax: (626) 359-8190
sales@chemarrow.com
www.chemarrow-hvac.com
www.chemarrow.com

Chem Arrow Canada

720 Guelph Line, LL 105
Burlington, ON L7R 4E2
Tel: (905) 332-0216
Fax: (877) 532-1799
salescanada@chemarrow.com



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