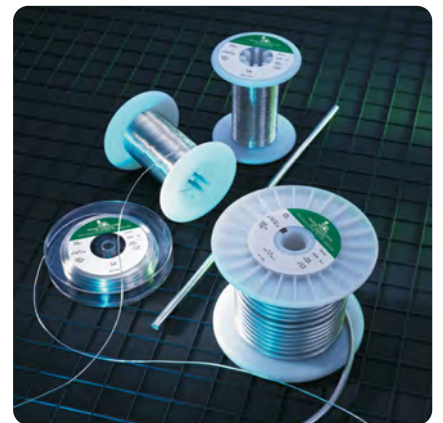
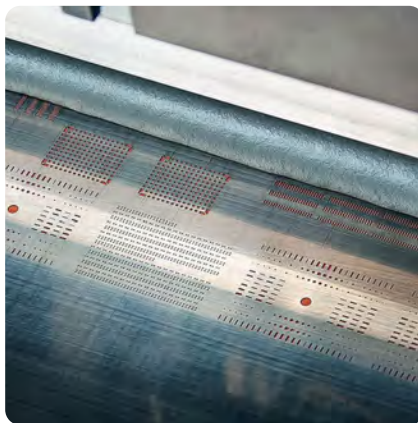


## SMARTCHE High Precision<sup>™</sup> CHEMICAL Solutions





# SMARTCHE High Precision™ CHEMICAL Solutions

LTHD Corporation's SMART SOL division is dedicated to supporting a wide array of low, medium and high-end processes in multiple industries such as electronic assembly, medical, pharmaceutical, aero-space, automotive, consumer goods and the list could continue.

## SMART SOLUTIONS

LTHD's own production of Deionized Water and Pure Deionized Water is addressing the needs of the electronic industry, laboratories, hospitals, biotech and medical companies, pharmaceutical manufacturers and many other high-end applications. LTHD Corporation is also producing under its own brands of Bioltyh and AlcoIyht, biocide cleaners with ESD properties and alcohol based hand sanitizer.



## ZESTRON Electronics Precision Cleaning

High precision cleaning solutions and process optimization for the electronic industry. LTHD Coporation is an official sales partner for the Zestron products and services.

**ATRON®** Cleaning Agents - water based cleaning mediums for defluxing, removal of conformal coating material from pallets, fixtures, and tools, baked-on flux removal.

**VIGON®** Cleaning Agents - water-based cleaning medium for flux removal for high pressure cleaning processes, for low and/or medium pressure cleaning processes, manual cleaning, pH neutral for spray-in-air low standoff applications, alkaline defluxing agents for PCBs and Power Electronics, stencil cleaning.

**HYDRON®** Cleaning Agents - water-based cleaning medium for defluxing, pH neutral defluxing agent for semiconductor electronics, water-based, alkaline defluxing for semiconductor electronics.

**ZESTRON®** Cleaning Agents - solvent-based medium for PCB flux removal, solvent-based cleaning medium for SMT stencils and screens, removal of solder pastes, SMT adhesives and thick film pastes.



## CLEANLINESS ASSESSMENT SERVICES

At **ZESTRON's** Analytical Center, you have the opportunity to evaluate the electronics' surface cleanliness according to IPC standards, J-STD, MIL or latest industry requirements employing a variety of test techniques. Evaluate PCB cleanliness using various analytical test techniques based on current IPC standards with detailed technical reports documenting assessment and process recommendations.



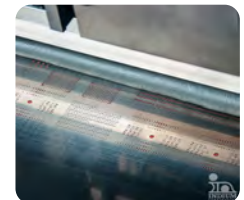
### CLEANING PROCESS IMPLEMENTATION AND OPTIMIZATION

With thousands of electronic cleaning processes installed worldwide, and an experienced team of application engineers located throughout the world, ZESTRON is uniquely positioned to offer you the technical expertise required to assess your precision cleaning requirements. Eight globally linked Technical Centers offering more than 70 cleaning machines and analytical test equipment from world leading manufacturers are available for your use and evaluation.



Indium Corporation is a premier materials refiner, smelter, manufacturer, and supplier to the global electronics, semiconductor, thin-film, and thermal management markets. LTHD Corporation is an official distributor for the INDIUM Corporation products and services:

**Solder paste** – available for a wide variety of process deposition techniques, including printing, dipping, dispensing, jetting, and pin transfer assembly. Each formula is specifically designed to meet the gamut of manufacturing challenges that plague the electronics manufacturing industry. Whether you are dealing with warpage induced defects, voiding, insufficient solder paste volume, or electrical or mechanical reliability issues, Indium Corporation's solder pastes – coupled with our world-renowned technical support – allow for the lowest total cost of ownership and fewer end-of-line defects.



**Solder wire** – solid core wire and flux cored wire with a variety of diameters and alloys for rework, automated soldering, die-attach application, hand soldering and assembly, cryogenic and hermetic sealing.



**Solder preforms** – solder Preforms come in standard shapes such as squares, rectangles, washers and discs. Typical sizes range from .010" (.254mm) up to 2" (50.8mm). Smaller and larger sizes, as well as custom shapes, are also available. Dimensions can be held to tight tolerances to assure volume accuracy.



**Fluxes** – a complete line of fluxes for soldering stainless steel, copper pretreatments, tabbing and stringing applications, epoxy fluxes, flux pens, POP fluxes, semiconductor and wave fluxes.



Process optimization and support – on-site and remote process support is available with highly qualified engineers, know-how based on years of industry-leading experience.





We provide **Specific** and **Measurable**,  
**Achievable** but **Relevant**, **Time-based**  
industry solutions.



**SMARTID** Ingenious Product™  
ID Solutions

**SMARTEMS** High Performance™  
EMS Solutions

**SMARTESD** Sustainable Safety™  
ESD Solutions

**SMARTMTL** METAL Converting™  
Solutions

**SMARTCHE** High Precision™  
CHEMICAL Solutions

Ardealul 70 • 300153 Timisoara • Romania

HQ +40 256 202 286 • +40 256 201 273

HQ +40 729 009 922 • +40 723 636 500

F +40 724 688 150 • lthd@lthd.com

[www.lthd.com](http://www.lthd.com)

[www.lthd.com](http://www.lthd.com)

