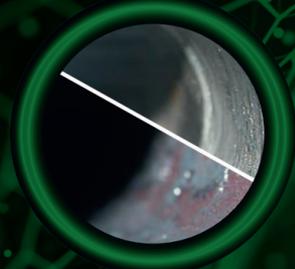




### HAKUCARE

The HAKUCARE 360° product line is a comprehensive package of auxiliary products and processes designed to help manufacturers improve their first run capability of their painting processes and reduce downtime for cleaning and maintenance. HAKUCARE 360° was developed to support companies in reducing VOC emissions, enhancing workplace safety, and optimizing costs.



### PAINT LINE CLEANING

Reliable solution for optimizing and maintaining the performance of your paint line. Special cleaning agents that effectively remove paint deposits, contaminations and blockages from your paint line.



### PAINT COAGULATION

Full range of paint coagulants for the detackification of paint overspray in wet booth systems. Synergetic products, compatible with all paint application processes (solvent/waterborne/catalyzed).



### POWERTRAIN

Our advanced cooling lubricants, part cleaners, corrosion prevention agents and forming lubricants are engineered to meet the stringent demands of leading automotive suppliers and OEMs. We prioritize long service life and process stability, highest cleanliness standards (residual contamination, particle levels, film-free surfaces), material compatibility, and sustainability. Designed for modern machining and cleaning - Hakufluid, Hakuform, Hakupur and Custos products support optimal machining results, cleanliness, dimensional accuracy, and tribological performance across all mechanical components.



### YOUR PARTNER FOR EXCELLENCE

At Chemische Werke Kluthe GmbH, we understand your needs. As your partner, we not only offer first-class products and services, but also focus our attention on the cost **efficiency**, **sustainability**, **quality** and **productivity** of your processes. Our holistic approach ensures that you can always count on us - on site, reliable, future-orientated and efficient.



All locations

### OUR PROMISE TO YOU:

- ▶ **Cost efficiency:** Through intelligent processes, lean structures, and targeted use of resources - we keep your costs under control long-term.
- ▶ **Sustainability:** As a certified waste management company, we focus on environmentally friendly processes and responsible materials management - for a sustainable future.

▶ **Quality:** For us, quality is not a promise, but a standard. We are certified in accordance with **IATF 16949:2016** and **DIN EN ISO 9001:2015**. Thanks to our - many years of experience and process-reliable production, we demonstrably help you to optimise your first-run rate.

▶ **Productivity:** We create measurable added value. Our efficient processes and expertise help you achieve your goals faster and more securely.

Discover how Chemische Werke Kluthe GmbH creates added value as a high-performance partner at your side - today and in the future.

9270343/0525



## AUTOMOTIVE SOLUTIONS

Special chemicals and services

METALWORKING&CLEANING PAINTSHOP SURFACETREATMENT

**Kluthe**

Chemische Werke Kluthe GmbH  
Gottlieb-Daimler-Str. 12  
DE - 69115 Heidelberg  
Tel.: +49 6221 5301-0  
info@kluthe.com · www.kluthe.com

www.kluthe.com

## KLUTHE AT A GLANCE

- Since the foundation in 1950, we are a family-owned enterprise with experience in development, manufacturing, sales and service of process chemicals
- Market segment and technology expertise in: Metalworking & Cleaning, Surface Treatment and Paintshop Materials
- More than 100 specialists in research & development
- Kluthe is certified according to ISO 9001:2015, ISO 14001:2015 and IATF 16949:2016
- 1000 people with one goal: customer satisfaction



### PURGES FOR PAINT APPLICATION

With our effective solvent- and water-based cleaning products for paint lines (recyclable), spray guns, bell atomizers, and electrostatic paint application equipment, we offer customized solutions that optimize processes and significantly increase efficiency.



### PRETREATMENT

Our environmentally friendly, zirconium-based thin film technology offers cost-effective, phosphate-free chemical pretreatment. It produces extremely thin, high-quality oxide and zirconium/titanium coatings on iron, zinc and aluminum substrates. Low temperature zinc phosphating is the ecological and economical alternative to conventional zinc phosphating processes. The products in this range are used at low application temperatures, which means that energy, chemical and maintenance costs can be saved through their use. OEM Paint Shops and their component suppliers are globally served with Kluthe pretreatment products. Global availability allows for consistent quality on all TIER levels.



### CPP-SERVICE CONCEPT

Cost per process management of:

- paint mixing room
- pretreatment
- waste water treatment
- paint flocculation

### PAINTSHOP:

- ▶ thin film technology
- ▶ low temperature zinc phosphate
- ▶ paint thinner
- ▶ purges / solvent-based / hydro purge
- ▶ paint coagulation

### FIRST-FILL:

- ▶ wind shield washer



### POWERTRAIN:

- ▶ cold extrusion
- ▶ cooling lubricants
- ▶ cleaners / (neutral alkaline)
- ▶ corrosion protection

### HAKUCARE / MAINTENANCE:

- ▶ paint line cleaning
- ▶ general Paintshop maintenance products: floor cleaner, wall protection...

### BODYPRODUCTION LINE:

- ▶ deep drawing / forming lubricants (prelube and spot lubricants)

### WASTE MANAGEMENT / RECYCLING:

- ▶ sustainability credits / VOC / CO<sub>2</sub> / water
- ▶ circular economy solvent-based purges
- ▶ paint sludge

### SERVICE:

- ▶ service concept CPP (cost per process)
- ▶ engineering solutions (reducing heavy metal in PT, HydroSplit)
- ▶ management of:
  - paint mixing room
  - pretreatment
  - waste water treatment
  - paint flocculation