

# ZWEZ<sup>®</sup>

**THE ORIGINAL SINCE 1938**

**RELIABLE – SUSTAINABLE – GLOBAL**

## **Oil-free & Water-based Lubricants**



**ZWEZ Chemie GmbH Germany**



**ZWEZ Química do Brasil Ltda.**



**ZWEZ Surface Products Pvt. Ltd. India**



**ZWEZ Surface Products North America, Inc.**



## Leading the Way for Over 8 Decades

Since 1938, Zwez-Chemie has been driven by a relentless pursuit of excellence in surface technology. As a family-owned business, our success is powered by a passion for research and development. We collaborate with leading universities and research institutions to develop cutting-edge solutions for your metal treatment needs. Our team of specialists in R&D, production, and application technology work seamlessly around the globe to ensure top-quality, reliable products.

We craft specialized conversion coatings, water-based lubricants, high-performance polymers and world-class solutions for wire and tube drawing.

Headquartered in Lindlar, on the outskirts of the metropolitan area of Cologne (Germany), we have subsidiaries in Brazil, India, and the United States of America. These strategic locations allow us to provide our exceptional German-manufactured products and services to our valued customers worldwide. Wherever we are, our commitment remains the same: **to deliver outstanding quality and innovation, driven by a passion for excellence.**



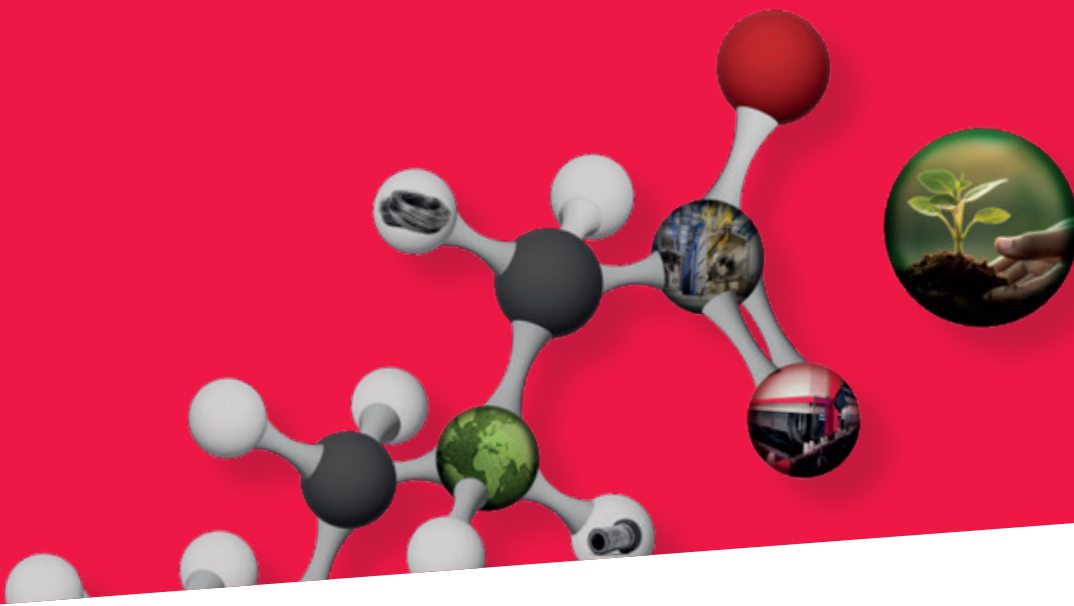
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## Sustainable forging with...

**CLEAN**<sup>®</sup>  
Degreasing

**ACID**<sup>®</sup>  
Pickling

**COAT**<sup>®</sup>  
Phosphating

**LUBE**<sup>®</sup>  
Lubrication

## ...for wire drawing and cold-heading

As an example of continuous innovations, ZWEZ-Lube PD 395 is a novel pasty polymer lubricant for the drawing of bright wire. Being water-based it is free of mineral oil, boron compounds, phosphates or any other salts. Besides the common dipping of coils, it is usually applied directly in the draw box, making it extraordinary cost effective.

A unique feature of ZWEZ-Lube PD 395 is the superior surface quality of the finished wire, being bright and with high dimensional accuracy and good corrosion protection. In this context, the product may also replace copper-plating.

For some applications (CHQ wire), the residual lubricant coating after drawing is also suitable for subsequent cold heading with low-to-medium degrees of forming.



**Lubrication**  
oil-free & water-based

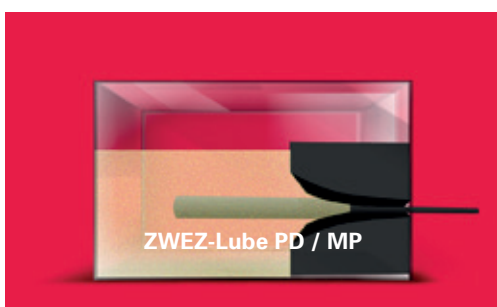
## Our second-to-none lubrication system

ZWEZ-Lube PD 395 also works as an excellent carrier for lubricants usually applied in subsequent process stages, e.g. dry drawing lubricants based on soap or molybdenum disulfide ( $\text{MoS}_2$ ). Our powdery ZWEZ-Lube MP 3 is based on this solid lubricant, providing the highest performance level for processing wire, shaping the most complex geometries with the sharpest contours.

ZWEZ-Lube MP 3 and ZWEZ-Lube PD 395 are suitable for the processing of almost all ferrous and non-ferrous materials, especially high carbon steel, high alloy steel grades and stainless steel. Even in multiple drawing operations they show high performance resulting in a very levelled coating with excellent adhesion.



**ZWEZ-Lube Z**  
Soap Lubricant



**ZWEZ-Lube PD**  
Polymer Lubricant

**ZWEZ-Lube MP**  
 $\text{MoS}_2$  Lubricant



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