

## ZWEZ-SLS – Short Lubrication System

### Lubricants for metal forging without conversion coating

ZWEZ-SLS are tribo coatings for cold and warm forging operations of semi-finished parts made from steel, stainless steel, and aluminium. Application on cleansed or shot-blasted surfaces, depending on the product in the draw box or by dipping/press flooding at approx. 70°C. Within seconds or minutes. Inline application is possible. Finally self-drying or drying by means of hot air. De-coating prior to heat treatment is recommended for lubricants based on molybdenum disulfide.

All SLS-products are co-friendly: no boron compounds, no oils, no organic solvents – the liquid component is water.



### SLS-Products for cold extrusion of billets

**ZWEZ-Lube PD 470** (polymer lubricant) for high degrees in cold extrusion up to 200°C. Application by dipping or press flooding (inline possible).

Alternatively: **ZWEZ-Lube PD 415** for dip application.

**ZWEZ-Lube MD 230** (liquid product based on molybdenum disulfide) for high-demanding forging and excellent accuracy in size for cold and warm forging operations up to 750°C. Application by dipping or press flooding (inline possible).



### SLS-Products for wire drawing and cold heading wire

**ZWEZ-Lube PD 415** (polymer lubricant) for drawing and cold heading. Dip application, subsequent application of dry drawing lubricants is possible.

**ZWEZ-Lube PD 395** (pasty polymer lubricant) for drawing. Limited suitability for cold heading. Application in the draw box. Can be combined with dry drawing lubricants.

**ZWEZ-Lube MP 3** (powder lubricant based on molybdenum disulfide) for drawing and cold heading. Application in the draw box.



### Interest!

Specific Technical Bulletins are available for all products.

Please give a short description of the intended use, and we will send the relevant information.