



Wire Steel

Drawing of wire rod through to fine wires (as fine as a single hair) or to profiles, over various stages, also with interim heat treatment, or the production and processing of cold headed wire qualities: in all these applications suitable lubricants need to work perfectly, on their own or in combination with a phosphate coating.

Many parameters contribute to a "perfect" result – and the properties of the lubricating systems therefore need to be just as varied to optimally stand the test in every case of need.

Beneath these lubrication systems, there are phosphate coatings created with innovative products of the latest generation: approx. 20-80% less sludge, reduced area-related consumption, and optimal tuning to the respective forming process and lubricants used.

These lubricants, either reactive hybrid soaps, polymers or also solid lubricants as powder, lead to excellent drawing results and enable amazingly high degrees forming in subsequent cold heading / cold extrusion. Polymer lubricants can furthermore replace soap in many cases with better results, and are usable without phosphate coating, applied by dipping or in the draw box, depending on the requirements.

ZWEZ is one of the world's most innovative manufacturers with a broad range of products. Experienced experts are available for technical support of your application.

	Steel			
■ = standard □ = alternative ◆ = if required	Wire drawing: single or multi-pass, dry or wet (dip application or continuous through pass)	Wire drawing and subsequent cold heading/extrusion (dip application or continuous through pass)	SLS process <u>without</u> phosphating (dip application)	SLS process <u>without</u> phosphating (draw box)
Blasting		◆	■	■
ZWEZ-Clean Cleaning/degreasing	◆	◆		
ZWEZ-Acid Pickling	■	■		
ZWEZ-Cond Activating	■	■	◆	◆
ZWEZ-Coat Zinc phosphate, thin Zinc phosphate, medium	■	□		
ZWEZ-Rinse Neutralizing	■	■		
ZWEZ-Lube Soap lubricant Polymer (dipping) Polymer (draw box) MoS ₂ (dipping) MoS ₂ (draw box)	■ □ □	■ □ □ □ □	■ □	■ □