



### Wire Stainless Steel / Aluminium

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 conversion coating. With stainless steel, oxalate will serve as this base layer, and aluminate for aluminium.

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.

These lubricants, either reactive hybrid soaps, polymers or also solid lubricants as powder (the latter only for stainless steel) provide excellent drawing results and enable amazingly high degrees of forming in subsequent cold heading / cold extrusion. Polymer lubricants can furthermore replace soap in many cases with better results and are usable without conversion coating, applied by dipping and in the draw box, depending on the requirements.

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	Stainless Steel		Aluminium	
	Wire drawing and cold heading wire	SLS process <u>without</u> oxalating	Wire drawing and cold heading wire	SLS process <u>without</u> aluminate
■ = standard □ = alternative ◆ = as required				
Blasting	◆	◆	◆	◆
<b>ZWEZ-Clean</b> Cleaning/degreasing	◆	◆	◆	◆
<b>ZWEZ-Acid</b> Pickling	◆		◆	
<b>ZWEZ-Coat</b> Oxalate	■			
Aluminate			◆	
<b>ZWEZ-Rinse</b> Neutralizing	■			
<b>ZWEZ-Lube</b> Soap lubricant	■		■	
Polymer (dipping)	□	□	□	■
Polymer (draw box)	□	□	□	□
MoS <sub>2</sub> (dipping)	□	□		
MoS <sub>2</sub> (draw box)	□	□		