

# WISURA

No need for time-consuming conversion coating:  
**FUCHS WISURA LUBRICANTS**  
FOR COLD MASSIVE FORMING



LUBRICANTS.  
TECHNOLOGY.  
PEOPLE.



# FUCHS WISURA delivers the best forming results

Cold massive forming places the toughest demands on the separating medium between the tool and the workpiece. The main problem here is the adhesive wear during the process, which has a direct effect on the service life of the tool and thereby also on the feasibility and efficiency of the procedure.



**Above all, good precision lubricants must have three qualities:**

- They contribute to a precise forming product.
- They ensure long tool service lives.
- They simplify the process chain in a sustainable way.

In other words: they increase the quality of the product and lower production costs.

**FUCHS WISURA's range of premium lubricants meet this requirement in full. We offer innovatively formulated and highly effective products for all types of cold massive forming.**

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## **The advantages of our lubricants:**

- Additive formulations precisely adapted to the metal surface
- Less work required for conversion coating
- Less machine maintenance necessary
- Longer oil change intervals
- Improved process safety
- Filtration systems can be dispensed with in certain cases
- Greater occupational safety and environmental protection
- Reliable wear protection of sheared billet front surfaces

# Profit from our premium formulations

As a lubricant manufacturer, we see ourselves as a trendsetter for the industry. And that's why we are so committed to research and development. On the basis of our theory on the interaction of additives and metal surfaces we have been able to compose extremely effective lubricant formulations – which is the secret to our success.



## **Cold massive forming without workpiece pretreatment**

Alongside other advantages, the innovative FUCHS WISURA premium lubricants allow you to partially or even completely eliminate time-consuming and expensive conversion coating while still avoiding adhesive wear. The only prerequisites for this are that unfinished parts are produced immediately prior to the forming process, and that a special PVD coating is applied to punches and female dies.

You thus save expensive and time-consuming process steps while also improving your environmental footprint.

## **Clean machines**

Our pioneering formulations also optimize the settling characteristics of our oils: If the oil moves during production, particles are held in a suspended position and the machines remain clean.

If the oil stops, the grindings settle – and the clean oil can simply be separated from the sediment mechanically.

This saves costs relating to filtration systems, machine cleaning and oil changes.



**„We develop our lubricants with a consistent focus on the metal surface. After all, this is where their effect fully unfolds. With this focus and in cooperation with renowned research institutes such as the WZL in Aachen we have achieved a series of impressive milestones – for example, lubricants that enable the customer to eliminate conversion coating in cold massive forming. And, in my view, it is this claim that absolutely justifies the tag ‚premium lubricants‘.“**

Prof. Dr. Joachim Schulz, Head of Research and Development

