

Press Release



Sense of responsibility and sustainability: cutting oils on a bio-based basis

Sustainability is the topic of the day and now permeates practically every area of our everyday lives. It is therefore not surprising that this aspect is also at the top of the agenda when developing modern cooling lubricants.



Zeller+Gmelin has been taking many of the factors that make up sustainable cutting oils into account for years. For example, the trend in new developments is increasingly towards base oils that consciously avoid fossil resources and integration of renewable raw materials in our formulations. The formulation of products that enable long process runtimes with high oxidation and ageing resistance, among other things, is also an opportunity to realise sustainability in cooling lubricants.

Furthermore, in cooperation with the company Südöl (100% subsidiary of Zeller+Gmelin), cutting oils can be subjected to a recycling process so that important raw materials can be recovered and reused.

But today, not only performance and economy play an important role, but also the CO₂ footprint of the products, the so-called Product Carbon Footprint (PCF). This can also be significantly optimised through the use of modern, bio-based base oils.

This was the basis for our new product family: **Multicut FSB**.

FSB stands for formulated on sustainable base, i.e. for products that realise an improved CO₂ balance - compared to a comparable fossil formulation - through a bio-based formulation. In the selection of all formulation components, care is also taken to consider the PCF of each raw material used in the overall consideration, so that this can also flow positively into the CO₂ balance.

The products that are created on the basis of this score points not only in terms of PCF and sustainability, but also in terms of performance. Because performance and ecological responsibility are not a contradiction, but go hand in hand. After all, the Multicut FSB cutting oils are characterised by, among other things, a very low foaming tendency, higher flash points, low evaporation losses as well as a low pour point and a high viscosity index.

In this way, we want to develop tailor-made lubricants for our customers and further strengthen our portfolio of non-water-miscible cooling lubricants.

About Zeller+Gmelin



ZELLER+GMELIN

Zeller+Gmelin GmbH & Co. KG, founded in 1866, employs over 1000 people worldwide, almost half of whom work at its headquarters in Eislingen. With its 16 subsidiaries, the medium-sized company operates worldwide. The product portfolio is divided into the divisions lubricants, industrial chemicals and printing inks. The high-quality products occupy a leading position on the international market. Zeller+Gmelin offers individual and holistic solutions from a single source, from research and development to production. The high proportion of R&D is reflected not least in the fact that around 20 percent of the employees in Eislingen work in this area in order to permanently develop and optimise the innovative products in line with market and customer requirements. <http://www.zeller-gmelin.de>

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