



## Press Release



## Lubricant that is gentle on the skin

### Skin-friendly lubricant for machining

**Last year, Zeller+Gmelin already announced that it would consistently remove water-miscible cooling lubricants (MWF) containing boric acid from its product range. Now, with the Zubora 77 series, the next health- and environment-friendly high-performance lubricants for metal cutting will follow. According to the lubricant manufacturer, water-miscible cooling lubricants without boric acid are by no means a contradiction to maximum machining performance with long service lives.**

What do cooling lubricants and occupational safety have to do with each other? Quite simply: when employees come into contact with it, it should not cause any damage to their health, such as skin irritations. With a growing portfolio of boric acid-free alternatives, lubricant expert Zeller+Gmelin once again underlines its manufacturer's commitment to health protection and sustainability. The development laboratory in Eislingen is constantly working on increasing the share of sustainable, resource-saving and, above all, health- and environment-friendly lubricants. The new boron-free, semi-synthetic, water-miscible high-performance cooling lubricants of the Zubora 77 series also make an important contribution to health and safety in metal cutting.

### **Skin-compatible and process-safe**

Thus, the formulation of the new Zubora products not only does without boron, formaldehyde releasers and monoethanolamine (MEA), but also without ingredients which, according to current knowledge, have an increased sensitising potential, such as abietic acid and rosin. Therefore, "skin compatibility" was a main criterion in the development. With special additives, the MWFs were deliberately formulated in such a way that they easily meet the growing requirements in the area of occupational safety and health protection. The resulting good skin compatibility was proven by dermatological tests.

An innovative formulation makes the cooling lubricants particularly stable over the long term and measurably extends tool life. In addition, highly effective additives make the new lubricants process-safe even in the most difficult machining processes - even with small component geometries and diameters and high walking speeds. And the good flushing properties of the Zubora lubricants also support chip removal and thus ensure more machine cleanliness and increased process reliability.



Image 1: Lubricant development/laboratory (Image: Zeller+Gmelin)

Without boron from the laboratory: the development laboratory of Zeller+Gmelin in Eislingen has always attached great importance to the development of skin- and environment-friendly cooling lubricants such as Zubora 77 H Ultra and Zubora 77 S Ultra for sustainable machining.

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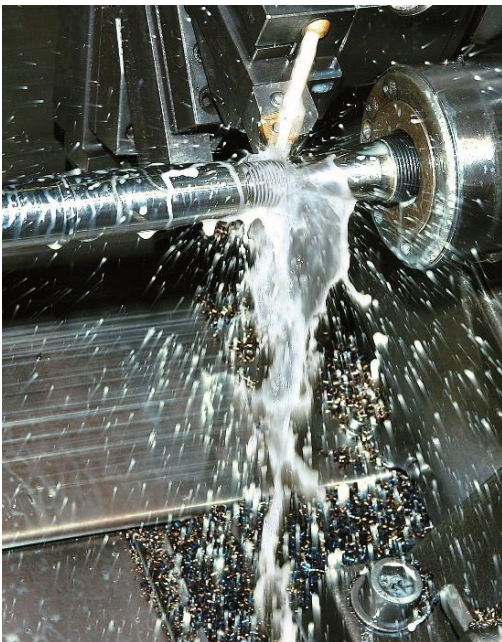


Image 2: Zubora 77 series

Zubora 77 H Ultra and Zubora 77 S Ultra: Two high-performance cooling lubricants for machining high-strength and stainless steel, cast iron and aluminium and their alloys.

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# ZELLER+GMELIN

## **About Zeller+Gmelin**

Zeller+Gmelin GmbH & Co. KG, founded in 1866, employs over 1000 people worldwide, almost half of whom work at its headquarters in Eisingen. 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 Eisingen 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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## **Your contact person:**

Andreas Rascher  
Marketing  
Schlossstraße 20  
73054 Eisingen/Fils  
Phone: 07161 / 802 - 352  
E-Mail: [a.rascher@zeller-gmelin.de](mailto:a.rascher@zeller-gmelin.de)

**EXPERTLY DONE.**

Zeller+Gmelin GmbH & Co. KG · Schlossstraße 20 · 73054 Eisingen/Fils · Germany · Postfach 13 65 · 73054 Eisingen/Fils  
Phone: +49 7161 802-0 · Fax: +49 7161 802-290 · [info@zeller-gmelin.de](mailto:info@zeller-gmelin.de) · Geschäftsführer: Dipl.-Ing. (FH) Siegfried Müller  
Dipl.-Kfm. Walter Jerusalem · Dipl.-Ing. (FH) Thomas Alpers · Kommanditgesellschaft Sitz Eisingen · Amtsgericht Ulm HRA 530107  
Persönlich haftende Gesellschafterin Zeller+Gmelin Verwaltungs GmbH · Sitz Eisingen · Amtsgericht Ulm HRB 530641