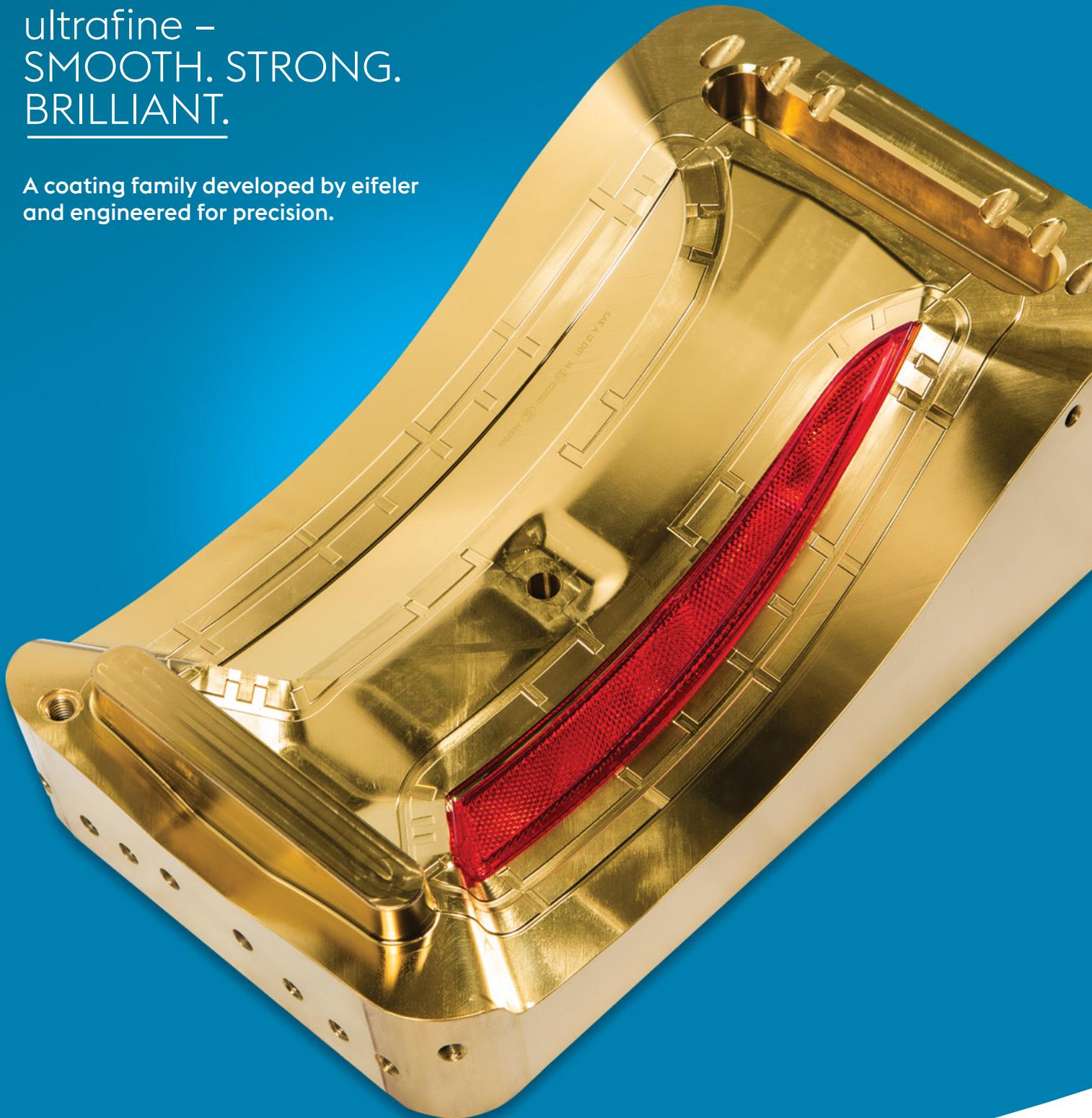




ultrafine –  
SMOOTH. STRONG.  
BRILLIANT.

A coating family developed by eifeler  
and engineered for precision.



# A COATING FAMILY BORN FROM ARC INNOVATION.

ultrafine combines exceptional smoothness with the proven adhesion, hardness, and thermal stability of arc coatings – delivering reliable performance where it matters most.

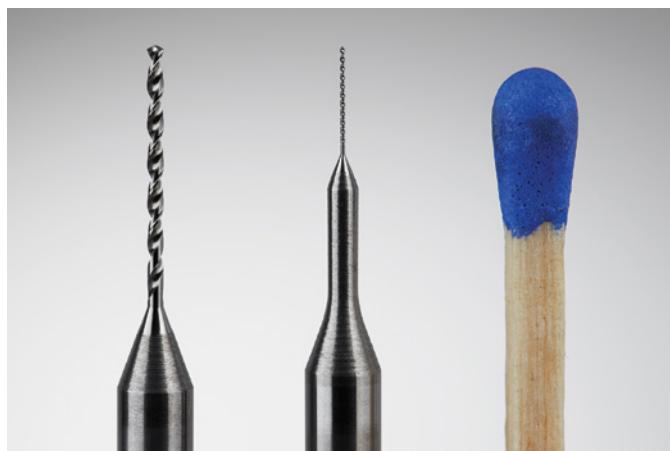
**At eifeler, we believe** coatings should do more than protect – they should empower performance. That's why we created ultrafine: a PVD arc technology developed by eifeler that redefines what smooth, dense coatings can achieve by combining exceptional surface quality with the proven strengths of arc technology.

ultrafine leverages advanced gas control to reduce defects and ensure consistent surface quality. The result: smooth, dense coatings with the adhesion, hardness, and reliability expected from arc technology. Available in selected chemistries like TiN-ultrafine, TiCN-ultrafine, SISTRAL®-ultrafine, SISTRAL®-Gold-ultrafine, and EXXTRAL®-ultrafine.

## WHY ultrafine?

**Because it's the perfect combination of:**

- » Smoothness – Mirror-like surfaces without costly post-finishing.
- » Adhesion – Coatings that stay where they belong, even under extreme stress.
- » Hardness – Engineered to cut, mold, and endure with precision.
- » Efficiency – High performance with consistent, proven arc technology.



## MACHINING

**ultrafine: Designed for delicate geometries and demanding operations.**

In applications where precision is non-negotiable, ultrafine delivers. It combines exceptional smoothness with the proven adhesion, hardness, and thermal stability of arc coatings – a synergy that supports stable geometries, reduced wear, and sharpness retention. Whether in miniature tools or complex profiles, ultrafine ensures reliable performance where others reach their limits.



## PLASTIC INJECTION MOLDING

### **Molds that release with ease.**

ultrafine coatings for injection molds deliver smooth, defect-free surfaces that reduce sticking and improve part release. With TiN-ultrafine, mold life is extended, downtime is reduced, and surface quality is consistently high – even in complex geometries.

Other ultrafine coatings: EXXTRAL-ultrafine and TiCN-ultrafine.



## MEDICAL INSTRUMENTS

### **Surgical precision, ultrafine protection.**

For surgical and medical instruments, ultrafine provides smooth, biocompatible coatings that enhance cutting efficiency and reduce friction. Its antiglare surfaces support visibility in clinical settings – helping instruments stay sharper, cleaner, and more reliable where precision matters most.



## COLD WORK

### **Strength in every stroke.**

In cold work applications such as punching, stamping, fine blanking, cold forming, roll forming, Sendzimir rolling, and thread rolling, tool reliability is essential. With TiCN-ultrafine and TiN-ultrafine, eifeler delivers smooth, hard, and adhesive coatings that resist wear, reduce galling, and maintain dimensional accuracy – ensuring consistent performance and precise results.

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**voestalpine**

ONE STEP AHEAD.