

ALPHA UNI ROSE

AUR

AUR | The universal high-performance coating

The Alpha Uni Rose coating (AUR) is our response to the demands of modern high-performance machining. As a truly universal coating, it combines maximum performance across an extremely wide range of materials.

This innovative formulation not only makes AUR an extremely robust all-rounder in general machining, but also makes it suitable for demanding applications in medical technology.

AUR

The benefits of AUR coating at a glance:

- Excellent results when machining almost all materials
- Enables use in sensitive applications in medical and dental technology thanks to its completely chromium-free design
- Effectively protects the tool against heat and wear – in both wet and dry machining
- Minimises material build-up on the cutting edge, ensures efficient chip evacuation and delivers excellent surface finishes

ALPHA UNI ROSE - AT A GLANCE

Components	Aluminium, titanium, silicon and nitrogen (chromium-free)
Layer thickness	Between 1 and 3 µm, depending on the tool diameter
Layer hardness	approx. 3.900 HV
Adhesion factor	Friction coefficient: approx. 0.3 (dry on steel)
Cooling	Dry and wet machining
Main application	Steel and cast iron, titanium, stainless steel
Secondary application (limited suitability)	Aluminium, nickel-based alloys, cobalt-chromium
Max. operating temperature	approx. 1100 °C

State-of-the-art coating technology

- Completely droplet-free and excellent surface smoothness
- Particularly strong bond between the tool and the coating
- Low tendency to stick during the machining process
- Low internal stress in the coating
- Higher coating density