

SUBLIME®

For high speeds in
machining and gear cutting

Tools used in machining and gear cutting are exposed to particularly high temperatures.

Whether due to dry machining, high cutting speeds or steels to be machined that themselves have low thermal conductivity, such as titanium or nickel-based alloys – the coating must protect the tools.

With SUBLIME® we offer a solution that withstands even the most demanding conditions.

COATING ADVANTAGES

- » Outstanding results in the machining of titanium, stainless steel and nickel-based alloys
- » Considerable red hardness and oxidation resistance
- » Excellent results for dry gear cutting, e.g. on gear hobbing machines

COATING PROPERTIES

Hardness	34 ± 3 GPa (~ 3.300 HV _{IT})
Coating thickness	3.0 ± 1.0 µm
Maximum operating temperature	1,100°C / 2,012°F
Coefficient of friction against steel	0.7 – 0.8
Roughness on polished surfaces	0.07 µm
Residual Stress	-2.5 ± 1.0 GPa
Color	Gray
Coating composition	AlCrTiXN-based

APPLICATIONS

- » Machining – dry and wet machining
- » Gear cutting – dry and wet machining

