

eifeler has developed a series of Physical Vapor Deposition (PVD) coatings for the cutting tool industry. Cutting tools using high and ultra-high speeds generates much heat which can weaken the tool and reduce tool life. Common failure modes that a coating can protect against are premature edge wear, thermal failure and edge build-up. This is mainly achieved through reduced friction, abrasion protection and reduction of edge build-up as well as heat resistance.

When it comes to gear cutting, the demands placed on tools are immense. Machining workpieces in dry gear cutting and high cutting speeds and feeds generate high temperatures. Even for wet machining, the requirements remain very high. With SUBLIME®, we now offer you a tool coating that yields a long service life and distance even with the special conditions for gear cutting.



PVD Coating	SUBLIME®	TiN	EXXTRAL®-plus
Coating Composition	AlCrN-based	TiN	AlTiN multilayer
Hardness	34 ± 3 GPa (~3,300 HV)	30 ± 3 GPa (~2,300 HV)	32 ± 3 GPa (~3,300 HV)
Max. Application Temperature	1.100°C	500°C	800°C
Friction Coeff. Against Steel	0.7 – 0.8	0.6	0.7
Coating Thicknesses (µm)	3 – 5	1 – 5	2 – 5
Color	gray	gold	anthracite
Applications	<ul style="list-style-type: none"> » Stick blades, hobs and shapers for long cutting paths and high cutting speeds » Perfectly suited for the challenging areas of dry cutting 	<ul style="list-style-type: none"> » Hobs and shapers » General purpose coating suitable for big hobs and shapers on wet machining conditions 	<ul style="list-style-type: none"> » Especially recommended for greater coating thicknesses, suitable for stick blades, hobs and shapers on wet and dry applications

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