

Announces another exciting advancement in coating technology:

Zenit™ multilayer PVD hard coating

Developed to improve cutting tool performance in titanium alloys, this coating has also been proven to reduce built up edges when machining aluminum, and has had positive results in some nickel alloys.

The Zirconium Nitride (ZrN) in Zenit is chemically inert in titanium, whereas coatings with a Ti-based element tend to want to bond with the workpiece material, causing a large increase in friction and reducing tool life.



Zenit can be applied to:

- Carbide drills
- Carbide end mills
- Carbide reamers (Ti applications) to extend tool life in titanium alloys, aluminum and some nickel alloys

** Currently not applicable to HSS tooling.*

Coating thickness for Zenit is in the same range as FIREX® and nano-A™. It can be applied over the top of other coatings. Zenit can be used as a less expensive alternative to DLC and diamond coatings for drilling and milling in aluminum.

Technical Data:

-Coating hardness:	2500 (HV 0.05)
-Young's modulus:	400 GPa
-Oxidation temperature:	< 800° C (1470° F)
-Coating structure:	multilayer

