

SISTRAL®

AlTiXN (nanostructured) – The standard for hard metal cutting

The nanostructured high-performance coating SISTRAL® of voestalpine eifeler is the new standard for hard, dry and high-speed machining. SISTRAL® is characterized by an extremely high oxidation resistance and hot hardness. This is all thanks to its special layer structure and composition, which was developed on the new voestalpine eifeler alpha-400P coating system. These special characteristics allow a significant increase in performance with applications where standard AlTiN coatings were previously favoured.

PRODUCT FEATURES

- » Very high oxidation resistance
- » High hot hardness
- » Chemical resistance
- » Low tendency to cracking
- » Low thermal conductivity coefficient
- » Extremely high wear resistance
- » Higher cuttingspeeds
- » Longer service life
- » Improved surface quality
- » Dry machining

APPLICATIONS

Cutting	Developed for metal cutting tasks (milling, drilling, turning, sawing, etc.) under usage conditions where other coatings reach their thermal and mechanical limits. High-performance cutting of very abrasive or hard materials (steel > 54 HRC) in dry, high-speed applications.
Punching	This nanostructured coating is also well suited to punching, e.g. in stainless steel qualities.

COATING PROPERTIES

Hardness	3,500 ± 500 HV
Max. application temperature	900 °C / 1,650 °F
Coefficient of friction against steel	<0.7
Coating thicknesses	1 - 4 µm
Colour	anthracite

