

SISTRAL®

**AlTiXN (nanostructured) –
the standard for hard metal cutting**



02/2024 – Specifications are subject to change without notice

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 alpha400P coating system. These special characteristics allow a significant increase in performance with applications where standard AlTiN coatings were previously favoured.

COATING ADVANTAGES

- » 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

COATING PROPERTIES

Hardness	2,500 ±300 HV
Coating thickness	1 – 4 µm
Maximum operating temperature	900 °C / 1,650 °F
Coefficient of friction against steel	<0.7
Colour	anthracite
Coating composition	AlTiXN-based

APPLICATIONS

Cutting	Machining (milling, drilling, turning, etc.). High-performance cutting of very abrasive or hard materials (steel > 54 HRC) in dry, high-speed applications.
Punching	Stainless steel qualities