

# 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

<b>Cutting</b>	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.
<b>Punching</b>	This nanostructured coating is also well suited to punching, e.g. in stainless steel qualities.

### COATING PROPERTIES

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

