

AFPX | High-performance coating specially designed AF for the requirements of machining steel and cast iron

The standard coatings for machining steel, such as TiAIN coatings, have become so well-established on the market thanks to their characteristically solid properties when used for universal machining.

In order to achieve this level of suitability for universal use in all steel and cast iron alloys while improving even further on the performance of the TiSiN-Alpha coating we have been using until now, we have built our new AlphaFerro Platin X based on an allnew AlCrTiN concept. This offers the following advantages over conventional coatings for machining steel and cast iron:

- Greater temperature stability for dry and wet machining
- Longer tool life thanks to improved resistance to wear
- Increased productivity thanks to faster cutting speed

EXPK1 SERIES



Structo

Comp

Layer

Layer I

Adhes

Max.

Coolir

- Main a
- Secon (limite

REFORE FINISHING

Finishing X as viewed through a

scanning electron microscope



AFTER FINISHING

Outstanding layer smoothing our new Finishing X technique

Finishing X is the name we have given to a special type of layer smoothing used in combination with AlphaFerro Platin that is characterised by unparalleled evenness, more homogeneous wear, and improved wear resistance. It has been developed specially to prevent micro-breakouts caused by droplets coming loose and guarantee a chip disposal process that will remain at its optimum level for a long time. The effects of the symbiosis between our AlphaFerro Platin and the Finishing X technique at a glance:

- Designed for wet and dry machining - Maximum stability for coating and cutting edges - Improved surface quality during finishing - Optimised heat dissipation thanks to improved chip disposal during dry machining

- Absolute smoothness for a reduced friction
- coefficient (0.4)

re	Nanostructured multilayer
nents	Aluminium chromium titanium nitride
nickness	3-4µm
ardness	approx. 3500 HV
on factor	Friction coefficient: approx. 0.4 (dry on steel)
perating temperature	approx. 1100°C
J	Dry and wet machining
oplication	Steel and cast iron
ary application I suitability)	Stainless steel

ALPHAFERRO PLATIN X AFPX -AT A GLANCE