

CROSAL®-PLUS COATING

Your tools will be capable of withstanding even the most extreme temperatures

CROSAL-plus is voestalpine eifeler Coatings' next generation AlCrN based hard coating. This new coating is an advanced development of our well established CROSAL coating.

As a result of optimized process parameters and a tailor-made coating microstructure this versatile high-performance coating covers all key requirements:

- » High oxidation resistance
- » Outstanding hot hardness
- » Excellent coating adhesion

YOUR PLUS IN METAL WORKING APPLICATIONS

The enhanced properties of CROSAL-plus make it ideally suited for challenging applications in the fields of dry machining, punching, forming and fine blanking.

APPLICATIONS

CROSAL-plus is especially suited for the following applications:

Cutting Applications

- » High Performance Cutting and Milling
- » Gear Cutting and Hobbing, Including Stick Blades
- » Dry Broaching of Tough Alloys

Stamping/Forming Applications

- » Fine Blanking
- » Stamping and Forming
- » Hot Pressing
- » Aluminum Die Casting
- » Forging

PROPERTIES

Material: Aluminum Chromium Nitride Based, AlCrN

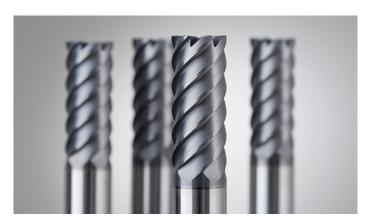
Micro-hardness: 3200 ± 300 HV

Maximum temperature of operation: 1100°C/2012°F

Coefficient of friction against steel: 0.45

Coating thickness: 2-5 µm

Color: Slate-Grey



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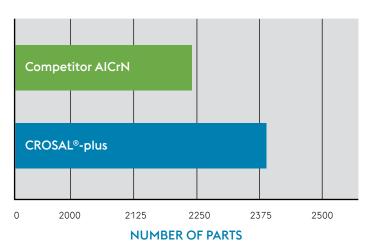


voestalpine eifeler designs and manufactures our own Physical Vapor Deposition machines which enables eifeler to design customized high performance coating solutions.



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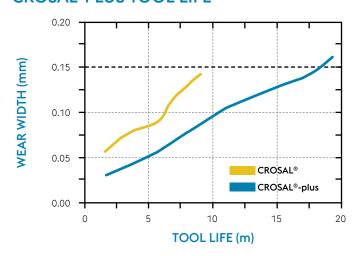
CROSAL-PLUS PRODUCTIVITY



Hobbing, 2-cutting technique,

PM-hob, dry, 5th speed, 16MnCr5 roughening: 180 m/min refining: 360 m/min

CROSAL-PLUS TOOL LIFE



Hard cutting in VANADIS10,

H=61HRc, CC-end mill Z=6, v_c =100 m/min, f_z =0.07 mm/tooth, v_f =1337 mm/min, a_p =10 mm, a_e =0.2 mm

Locations:

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SCAN TO LEARN MORE

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