

CROSAL®-PLUS

To enable your tools to withstand even the highest temperatures

CROSAL®-plus represents the next generation of Al-CrN-based hard coatings. The new coating system is an advanced development of our well-established CROSAL® coating.

Through targeted optimization of process parameters and further development of the coating system structure, a high-performance and versatile coating system has been created.

CROSAL®-plus is perfectly suited for the challenging areas of dry cutting, as well as the numerous applications for punching and forming, all of which benefit from the enhanced properties profile of CROSAL®-plus.

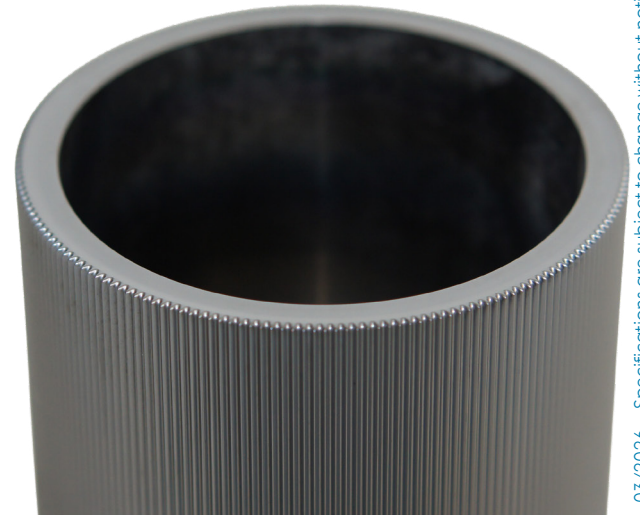
CROSAL®-plus thus ensures greater process reliability, extended tool life, and a sustained improvement in tool performance.

ADVANTAGES

- » High oxidation resistance
- » Excellent hot hardness
- » Outstanding adhesive strength

APPLICATIONS

Cutting	High-performance cutting Gear cutting Dry broaching
Punching / Forming	Fine blanking Hot pressing Aluminum die casting



03/2026 - Specifications are subject to change without notice

COATING PROPERTIES

Hardness	3,200 ± 300 HV
Coating thickness	2 – 5 µm
Maximum operating temperature	1,100 °C / 2,012 °F
Coefficient of friction against steel	0.45
Color	Slate gray
Coating composition	AlCrN based

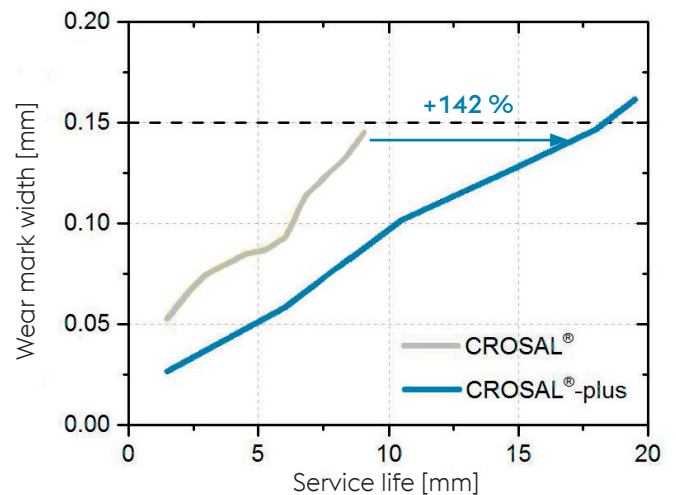


Fig. 1: Hard machining Vanadis10: H = 61 HRC, HM end mill Z = 6, $v_c = 100$ m / min, $f_z = 0.07$ mm / tooth, $v_f = 1,337$ mm / min, $a_p = 10$ mm, $a_e = 0.2$ mm