

## DUPLEX CRN / CRCN

High resistance to abrasion, corrosion and oxidation

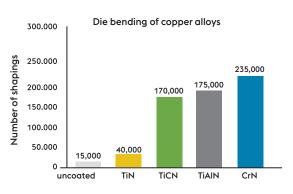
CrN exhibits good sliding properties with minimal lubrication. The high hardness and very low brittleness allow thicker CrN coatings with very good adhesion to the substrate.

## **APPLICATIONS**

Cutting	Milling, turning, grinding and cutting tools for the working of non-ferrous metals, particularly Ti and Cu alloys.
Forming	Drawing, stamping, pressing and forming tools for the working of non-ferrous metals, especially Ti and Cu alloys; aluminium and magnesium die casting.
Plastic moulding	Tools which are subject to corrosive and abrasive wear, e.g. through aggressive and hard filling materials.

## **PRODUCT FEATURES**

- » High hardness and adhesive strength
- » Very good chemical resistance
- » Low friction coefficient against steel
- » High temperature resistance in air
- » Low residual stress
- » Thicker layers possible





## **COATING PROPERTIES**

	CrN	CrCN
Hardness	2,000 ± 200 HV	2,300 ± 200 HV
Max. application temperature	600 °C / 1,110 °F	600 °C / 1,110 °F
Coefficient of friction against steel	0.3 - 0.4	0.2 - 0.3
Coating thicknesses	1 - 6 μm	1 - 6 μm
Colour	slate grey	silver grey

