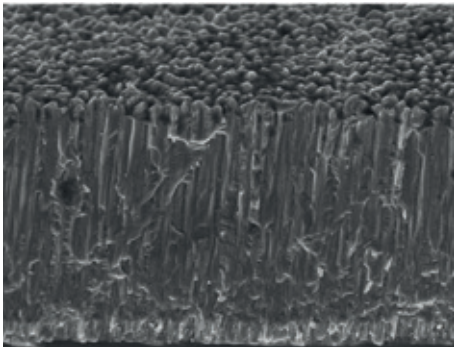




Tribobond™ 30 CrN



High temperature resistant coating with excellent toughness

Tribobond™ 30 CrN has a good combination of properties; high hardness, excellent toughness, high wear and impact fatigue resistance. Tribobond™ 30 resists oxidation of up to 700 °C making it a good candidate for high temperature applications. It features a lower residual stress than many other coatings allowing the deposition of thicker layers. CrN can be deposited at low temperatures, which makes it irreplaceable for temperature-sensitive substrates.

Tribobond™ 30 CrN is often used as an environmentally friendly replacement for electroplated hard chromium. It can be deposited directly onto the machined components and does not require grinding back to size.

Tribobond™ 30 CrN protects against abrasive and adhesive wear, fatigue, oxidation and fretting.



Technical Data

Material	CrN
Technology	PVD ubM/Arc
Thickness range	2 – 40 µm
Nanohardness, HV 0.005	1800 – 2300 uBM/ 2000 – 2800 Arc
Coefficient of Friction	< 0.55 dry vs. steel
Service Temperature	700 °C
Process Temperature	150 – 400 °C
Color	Silver