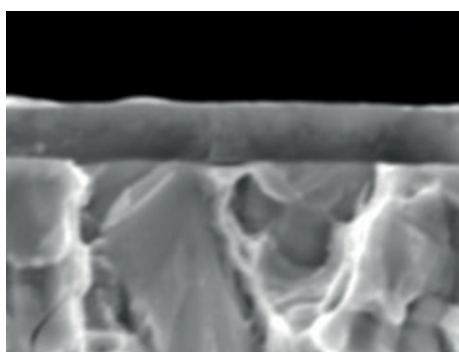


Tribobond™ 20 AlTiN



Wear resistance coating for high temperature applications

Ionbond's Tribobond™ 20 AlTiN coating is designed to provide wear and oxidation protection at temperatures of up to 850°C. It possesses an impressive combination of properties: high hardness, excellent toughness and impact fatigue wear resistance. Despite its high hardness, Tribobond™ 20 is fairly ductile, which makes it a strong performer in hard particulate erosion applications (e.g. for protection of compressor blades of jet engines).

Other high temperature applications such as parts of turbochargers, piston rings or engine valves also benefit from the unique combination of Tribobond™ 20 properties.

Technical Data

Material	AlTiN
Technology	PVD Arc
Thickness range	2 – 8 µm
Nanohardness, HV	2800 – 3000
Friction vs. Steel	< 0.55
Service Temperature	850 °C
Process Temperature	350 – 500 °C
Color	Blue-Black
Application Reference	High temperature wear resistance, erosion and oxidation protection