

## X.Ceed

### AlTiN (Aluminium Titanium Nitride)

X.Ceed (AlTiN), produced in the INNOVA, represents the pinnacle of Titanium based PVD coatings. AlTiN is a high performance coating suitable only for carbide tools, due to its high deposition temperature, which gives improved adhesion in severe applications. For a Titanium based coating it has high hardness, excellent oxidation resistance and high service temperature. Good results have been obtained with this coating on tools used for machining Ti alloys, Inconel and other difficult to machine materials. AlTiN is also applicable in high speed cutting and hard machining (> 52HRC)

#### Applications and Benefits

- Hard materials
- Difficult to machine materials, Ti alloys, Inconel
- High speeds and feeds

#### Improved Performance with

- High speed machining
- Dry or MQL machining
- Machining of hard materials (>52HRC)

Colour	Blue - Grey
Coating Thickness	4 $\mu$ m
Microhardness	3300 HV
Thermal Stability	up to 900°C
Coeff. Friction vs Steel	0.4

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Surface Technology Coatings is a division of Sutton Tools

**SURFACE  
TECHNOLOGY  
COATINGS**

Innovation Through Technology

# X.Ceed

Aluminium Titanium Nitride

# innovation through technology



**By heavily investing in R&D, Surface Technology Coatings is combining the latest technology and Australian ingenuity, to provide world class capabilities for your products. Together we will support Australian manufacturing at a global level.**

Surface Technology Coatings and its parent company Sutton Tools Pty Ltd are a key financial partner in the Defence Materials Technology Centre (DMTC Ltd.), based in Victoria. DMTC Ltd. represents a major partnership between Commonwealth and State Governments, the research sector and private industry, struck to develop and deliver advanced materials and manufacturing technology through industry led research programs that provide enhanced capability to Australian Defence activities. DMTC has installed the Innova Coating System at Surface Technology Coatings in order to provide a unique and worlds-best-practice underpinning of activities to achieve the Centre's vision over the next seven years, based on Surface Technology Coatings' proven track record of market leading products and processes.

## Supporting Australian Manufacturing Together

