

SuperTEC

TiAlCrN + Me DLC (Titanium Aluminium Chromium Nitride based)

SuperTEC (TiAlCrN + Me DLC), produced in the INNOVA, is a hard base coating, Titanium Aluminium Nitride (TiAlCrN), with a hard lubricious top coat of metal containing diamond like carbon (DLC). The lower coefficient of friction makes this coating ideal for drilling and tapping of long chipping materials. This is due to a reduction of heat at the cutting edges which reduces the incidence of wear and fracture.

SUPERTEC also assists in preventing the formation of a built-up edge, caused by the workpiece material adhering to the tool, which can lead to premature failure due to chip jamming. The total coating thickness is only a few microns and yet significant increases in tool life have been achieved in drilling and tapping applications.

Applications and benefits

- Particularly suited in dry tapping and drilling of long chipping materials
- Drilling and tapping of abrasive materials such as cast iron
- Tapping and drilling of aluminium alloys (including high silicon)
- Reduces or eliminates the use of coolants
- Higher speed and feeds

Colour	Grey - Black
Coating Thickness	1-3 μm
Microhardness	3300HV
Thermal Stability	up to 900°C
Coeff. Friction vs Steel	0.3-0.35

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Surface Technology Coatings is a division of Sutton Tools

**SURFACE
TECHNOLOGY
COATINGS**

Innovation Through Technology

SUPER TEC

Titanium Aluminium
Chromium Nitride based

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

