

## Alcrona

AlCrN (Aluminium Chromium Nitride)

Alcrona (AlCrN), produced in the INNOVA, is a Titanium free coating for broad application in machining and forming operations. Alcrona has remarkable wear resistance at lower speeds and feeds and under high mechanical loads. At higher speeds, where hot hardness and oxidation resistance are important, Alcrona excels, compared to Titanium based coatings, with an operating temperature up to 1,100°C.

Alcrona is applicable to HSS and carbide tooling and for forming and forging operations, as well as cutting operations. Alcrona has shown great results in machining a wide variety of hardened steels up to 54 HRC both with and without coolant as well as low alloy steels and high tensile steels.

### Applications and Benefits

- Low alloy steels and high tensile steels
- Hardened steels up to 54 HRC
- Forming/punching/blanking and hot forging

### Improved Performance with

- High speed machining
- Dry or MQL machining
- Higher productivity

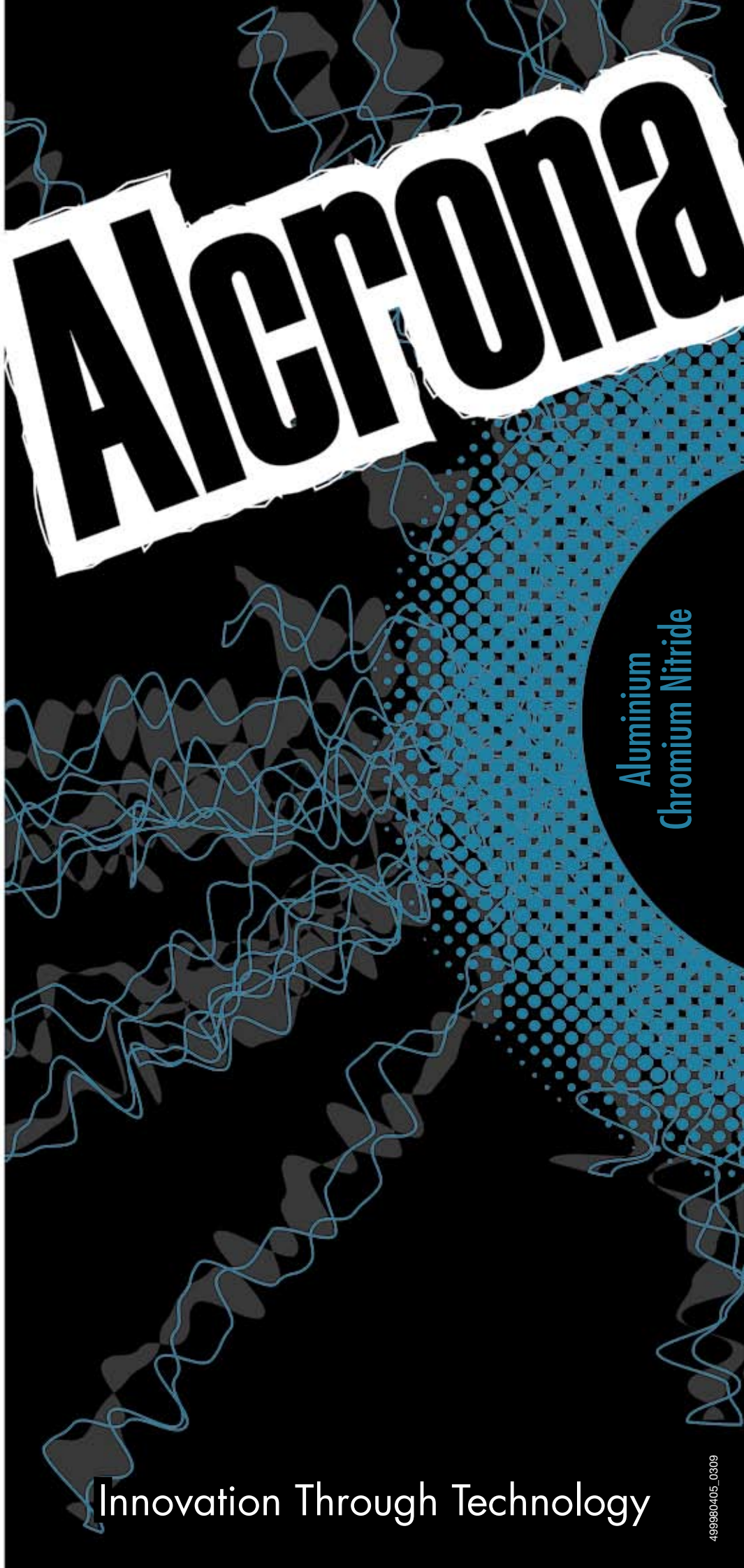
Colour	Blue - Grey
Coating Thickness	4 $\mu$ m
Microhardness	3200 HV
Thermal Stability	up to 1,100°C
Coeff. Friction vs Steel	0.35

382 Settlement Road  
Thomastown Victoria 3074  
T +61 3 9464 0644  
F +61 3 9464 0773  
E [surftech@surftech.com.au](mailto:surftech@surftech.com.au)  
[www.surftech.com.au](http://www.surftech.com.au)

Surface Technology Coatings is a division of Sutton Tools

**SURFACE  
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Innovation Through Technology



# 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

