



PR1725

MEGACOAT NANO PLUS

1st Recommendation for Steel Machining
Excellent Surface Finish and Long Tool Life

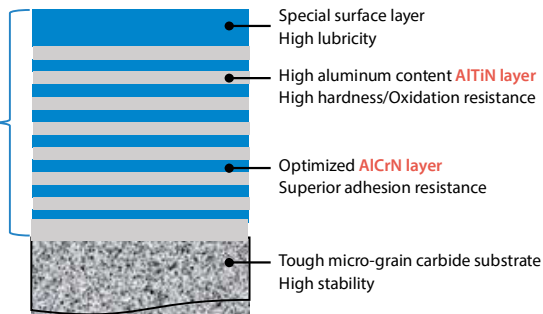
Great All-Around Performance in Small Parts Machining Applications

MEGACOAT NANO PLUS

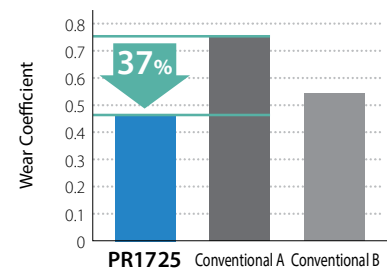
AlTiN/AlCrN Nano laminated film with superior wear resistance and adhesion resistance. Excellent surface finish and long tool life.

REDUCES CRACKING

Reduces abnormal damage such as chipping because of increased lamination layer with a thinner gap than conventional coatings



Wear Coefficient Comparison
(Internal evaluation)



Superior Wear and Chipping Resistance

High Strength with nano laminated film layer properties
Internal stress optimization reduces chipping

Excellent Surface Finish

Special surface layer with great lubricity reduces adhesion

Applicable to Various Workpiece Materials

Superior high temperature properties and oxidation resistance make for great performance in steel, stainless steel and free-cutting steel

High Machining Stability

Tough micro-grain carbide substrate provides stable machining

PR1535

MEGACOAT NANO PLUS

The combination of tough substrate and special nano layer coating enables long tool life and stable machining of steel, stainless steel and heat-resistant alloys

1 Toughening with a New Cobalt Mixing Ratio

* Comparison with our conventional grade

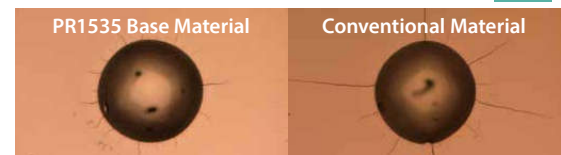
23%
Fracture Toughness*

2 Improved Stability by Optimization and Homogenization of the Particle Matrix

3 Long Tool Life and Stable Machining with MEGACOAT NANO

Cracking Comparison by Diamond Indentor (In-house Evaluation)

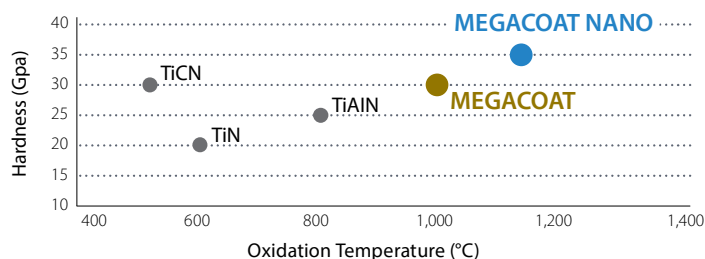
Shock Resistance



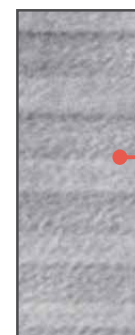
Short Cracks

Long Cracks

Coating Film Property



Low Oxidation Resistance High



Layer Structure of MEGACOAT

PR1535 is a good solution for unstable conditions such as early fracturing and variable tool life during steel machining.