KORLOY NOTICE

Super Coating Series
SNC805 / SPC810

■ Purpose

- To promote premium Turning grade for machining of HRSA including Inconel, Hastelloy, Titanium alloy, Precipitation hardened Stainless steel, and etc.

■ Detailed Information

① Subject item

SNC805 (CVD)	SPC810 (PVD)
	

② Features

SNC805: Ultra-fine substrate and CVD coatings are applied to enhance the performance at the high speed machining and wear resistance
→ **Higher speed machining can be applied compared to UNC805 while it has the equal toughness**

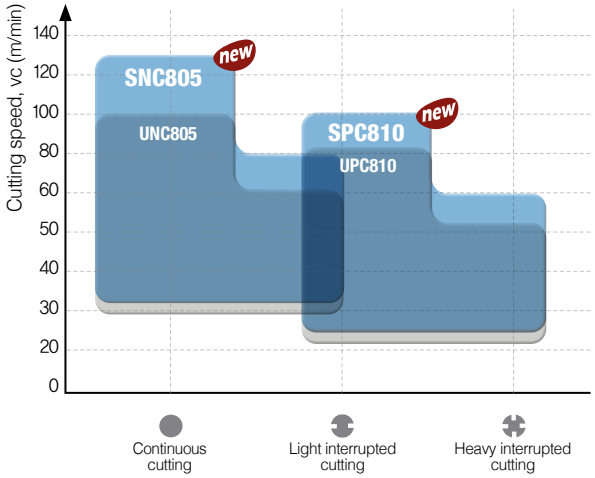
SPC810: Ultra-fine substrate and PVD coatings are applied to enhance the performance at the high speed machining and chipping resistance
→ **Higher speed machining can be applied compared to UPC810 while it has the equal toughness**

The price is 20% lower than the existing UN(P)C grade.

UNC805 will be changed to SNC805 when UNC805 stock is run out.
UNC 805 will be changed ● or ○ in stock.

③ Application range

Improve productivity via high speed processing of Inconel, Hastelloy, Titanium alloy, Precipitation hardening Stainless steel, and etc.



■ Effective Date

From April 2024

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Performance evaluation

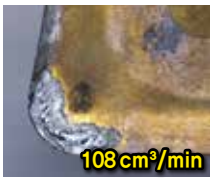
Precipitation hardening Stainless steel (KS : STS630, ISO : 17-4PH, AISI : AM350)

Workpiece Stainless steel Turning (Customer test)

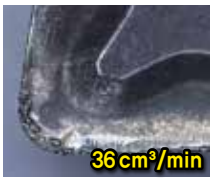
Cutting condition vc = 40 m/min · fn = 0,12 mm/rev
ap = 2,0 -3,0 mm · wet

Cutting time After 2-6 pass of machining

Tool
Insert WNMG080412-VP4 (SNC805)
Holder PWLNR3232-M12



SNC805



Competitor

- **Material removal rate Q = 18,0 cm³/min**

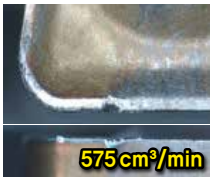
Tianium alloy (KS : Ti - 6Al - 4V, ISO : 5832-11, AISI : Ti - 6Al - 4V)

Workpiece Tianium alloy Facing Turning (Customer test)

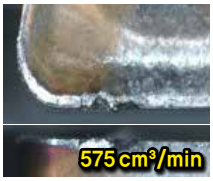
Cutting condition vc = 65 m/min · fn = 0,20 mm/rev
ap = 1,8 mm · wet

Cutting time After 25 min of machining

Tool
Insert CNMG120408-VP4 (SNC805)
Holder PCLNR3232-M12



SNC805



Competitor

- **Material removal rate Q = 23,0 cm³/min**

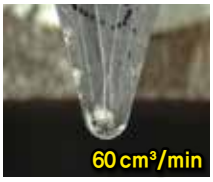
Inconel (KS : IN718, ISO : 9723, AISI : Inconel718)

Workpiece Inconel External/Facing Turning (Customer test)

Cutting condition vc = 45 m/min · fn = 0,20 mm/rev
ap = 0,5 mm · wet

Cutting time After 12 min of machining

Tool
Insert VBGT160408-MU (SPC810)
Holder SVJNR2525-M12N



SPC810

Competitor

- **Material removal rate Q = 5,0 cm³/min**

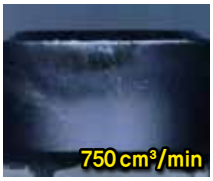
Inconel (KS : IN718, ISO : 9723, AISI : Inconel718)

Workpiece Inconel External/Facing Turning (Customer test)

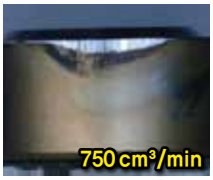
Cutting condition vc = 50 m/min · fn = 0,25 mm/rev
ap = 0,5- 3,0 mm · wet

Cutting time After 20 min of machining

Tool
Insert RCMT1204M0-RSA (SPC810)
Holder C6-SRSCR-45065-12H



SPC810



Competitor

- **Material removal rate Q = 37,5 cm³/min**

For any further information,
please contact our customer support team!

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