



# PRIMCOAT

PCI-1123-Vicious

# **HP Vicious**

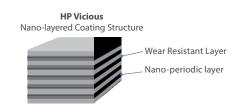
Specially developed for machining hardness materials up to 60HRC

Very high heat resistance

#### **Hot Hardness**

Very high oxidation resistance (>1,100°C)

Low thermal conductivity



**HP Vicious** was developed for Milling and Drilling high hardened steels from 54HRC to 60HRC. Suitable for Dry and Wet machining.

Composition	Color	Structure	Hardness (GPa)	Thickness (µm)	Oxidation Temperature (°C)	Coefficient of Friction	RUIIUNDEC	Properties	Application
AlTiSi Based	Red-Brown	Nanolayer	41 GPa	2 ~ 3.2 μm	1,100°C	0.3	0.10 ~ 0.25	Very high heat resistance and high brasion resistance.	Drilling and milling high hardened steels from 54HRC to 60HRC. Suitable for dry/wet machining.

Available in Low Temperature, for more information, please contact our sales department.

Heat Resistance	High Adhesion	Surface Roughness	Wear Resistance	Welding Resistance	Toughness		
0	0	0	0	0	0		

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c	arbon Ste	Alloy Steel Steel Pre-Hardened Steel Hardened Steel		Stainless Steel	Cast Iron	Ductile Cast Iron	Copper Alloy	Aluminum Alloy	Plastic	Titanium Alloy	Heat Resistant Alloys	Inconel	Graphite						
C ~0.25%	C0.25% ~0.45%	C 0.45%~	SCM	SKD SKS	~35 HRC	35~45 HRC	45~50 HRC	50~60 HRC	60~70 HRC	SUS	GG	GGG	Cu	AL	-	Ti			-
			0		0	0	0	0			0	0							
© Excelent											O Good								

### Great Performance in Hardness Materials (60HRC) in High Speed Machining

HSM SKD11/D2 (60HRC)

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Tool	Ballnose Ø 8mm, R4
Work material	SKD11/D2 (60HRC)
Cutting Speed	Vc=200m/min
Feed	Vf=870mm/min (0.12mm/t)
Milling depth	ap=3mm / ae=0.5mm
Coolant	Air blow

	<b>Milling Time (hours)</b> 5 10 15 20								
HP Vicious					+30	%			
Competitor 1									
Competitor 2				V .					



Wear after **30 meter** machining

## **Prim**Coat

### PrimCoat PVD Technology India Private Limited Pune Plant

Plot No. G-22, MIDC Phase II Chakan Industrial Area - Savardari Village Tal Khed, Pune - 410 501 Maharastra, India

### **Bangalore Plant**

Plot No: 22-J2, Attibele Industrial Area Survey № 125, 126,127 - Ichhangur Village Attibele Hobli, Anekal Taluk, Bangalore- 562 107 Karnataka, India

#### **Chennai Plant**

Plot No: K-16, Phase II SIPCOT Industrial Park - Mambakkam Village Sriperumbudur Taluk, Kancheepuram - 602105 Tamil Nadu, India

www.primuscoating.com