

# HP Cera



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Due to the high adhesion to the substrate, HP Cera coating allows longer tool life

## ■ Components

**HP Cera** was developed for wear protection, low coefficient of friction, and excellent sliding properties. It is the best option for applications with low or dry lubrication. Typical applications are engine and machine components as well as moving mold & die parts.



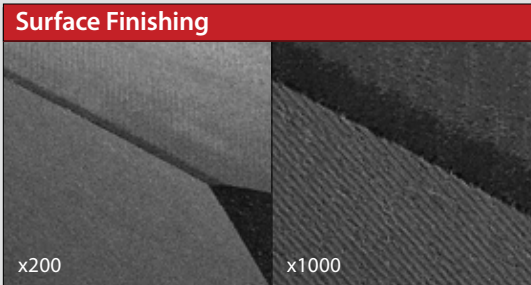
## ■ Cutting Tools

**HP Cera** is excellent for machining aluminum alloys and non-ferrous materials due to its low coefficient of friction.



## Surface Roughness

The combination of low roughness, high resistance to abrasion, and heat tolerance allows a longer tool life.



Composition	Color	Structure	Hardness (GPa)	Thickness (μm)	Oxidation Temperature (°C)	Coefficient of Friction	Surface Roughness (Ra)	Properties	Application
Cr Based	Dark Grey	Multilayer	30 GPa	1.5 ~ 2 μm	550°C	0.1	0.04 ~ 0.10	High toughness, low friction coefficient and friction wear resistance, excellent sliding properties.	Machining of aluminum alloys and non-ferrous materials. Plastic injection.

Available in low temperature. For more information, please contact our sales department or [sales@primuscoating.com](mailto:sales@primuscoating.com)

P			H				M	K		N			S		-				
Carbon Steel			Alloy Steel	Tool Steel	Pre-Hardened Steel Hardened Steel				Stainless Steel	Cast Iron	Ductile Cast Iron	Copper Alloy	Aluminum Alloy	Plastic	Titanium Alloy	Heat Resistant Alloys	Inconel <sup>®</sup>	Graphite	
C ~0.25%	C0.25% ~0.45%	C 0.45%~	SCM	SKD SKS	~35 HRC	35~45 HRC	45~50 HRC	50~62 HRC	62~70 HRC	SUS	GG	GGG	Cu	Al	-	Ti			
													⊙	⊙	○				

⊙ Excellent ○ Good

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