

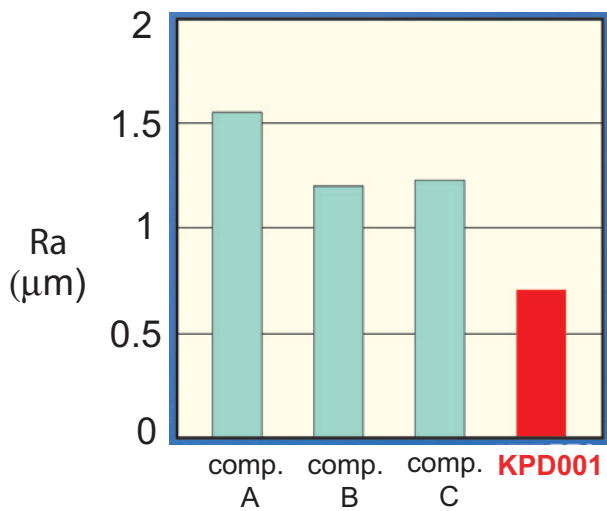
KPD001

Super Micro-grain PCD

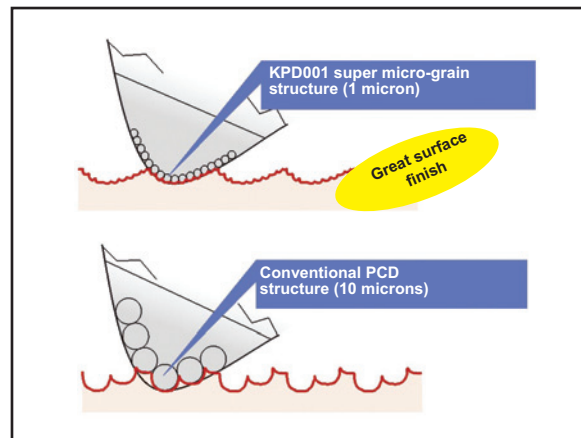


- Good wear and fracture resistance, with a strong cutting edge
- Super fine grain structure promotes excellent surface finishes

Aluminum Surface Finish



Grain Size Effect on Surface Finish



Grade Properties

Grade	Grain Size μm	Density	Hardness GPa	Fracture Toughness
KPD001	.5	4.3	(50)	12
KPD010	1.0	4.0	(50)	8

Insert Order Number	A	T	φd	Insert Order Number	A	T	φd
CCMT 21.5	1/4	3/32	.110	TNMM 33	3/8	3/16	.150
CCMT 32.5	3/8	5/32	.173	VBMT 33	3/8	3/16	.173
CNMM 43	1/2	3/16	.203	VNMM 33	3/8	3/16	.150
CPMH 2.51.5	5/16	3/32	.138				
DCMT 21.5	1/4	3/32	.110				
DCMT 32.5	3/8	5/32	.173				
DNMM 43	1/2	3/16	.203				

Insert	Description (ANSI)	Description (ISO)	Dimension		Angle α	KPD001 Stock	
			R	S			
		CCMT 21.50.5	CCMT 060202	.008	.130	●	
		CCMT 21.51	CCMT 060204	1/64	.126		7°
		CCMT 32.50.5	CCMT 09T302	.008	.154		
		CCMT 32.51	CCMT 09T304	1/64	.154		
		CNMM 431M-SE	CNMM 120404M-SE	1/64	.110	●	
		CNMM 432M-SE	CNMM 120408M-SE	1/32	.106	●	
		CPMH 2.51.50.5	CPMH 080202	.008	.146	●	
		CPMH 2.51.51	CPMH 080204	1/64	.146		●
		DCMT 21.50.5	DCMT 070202	.008	.154	●	
		DCMT 21.51	DCMT 070204	1/64	.146		7°
		DCMT 32.50.5	DCMT 11T302	.008	.154		
		DCMT 32.51	DCMT 11T304	1/64	.146		
		DCMT 32.52	DCMT 11T308	1/32	.130	●	
				DNMM 431M-SE	DNMM 150404M-SE	1/64	.102
		DNMM 432M-SE	DNMM 150408M-SE	1/32	.087	●	
				TNMM 331M-SE	TNMM 160404M-SE	1/64	.102
		TNMM 332M-SE	TNMM 160408M-SE	1/32	.091	●	
				VBMT 330.5	VBMT 160402	.008	.118
VBMT 331	VBMT 160404			1/64	.102	5°	
VBMT 332	VBMT 160408			1/32	.138		
		VNMM 331M-SE	VNMM 160404M-SE	1/64	.098		●
		VNMM 332M-SE	VNMM 160408M-SE	1/32	.063	●	

