

COATING GUIDE

Coating	TiN	TiCN	TiAlCN	TiAlN	AlTiN	AlTiN Nano	ZrN	CrN	CBC	AlTiN / Si ₃ N ₄	AX	AlCrN / Si ₃ N ₄	DLC	CVD Diamond
Nanohardness (Gpa)	24	37	28	28	38	38	20	18	20	45	36	42	77	87
Friction Coefficient (Fretting)	0.55	0.2	0.3	0.6	0.7	0.7	0.4	0.3	0.15	0.45	0.35	0.35	0.2	0.25
Thickness (µm) (Application Dependant)	1 - 5	1 - 4	1 - 4	1 - 4	1 - 3	2-4	1 - 4	1 - 4	0.5 - 1.5	1 - 4	1-4	1 - 5	1 - 3	8 - 12
Maximum Working Temperature	600 °C (1100 °F)	400 °C (750 °F)	500 °C (930 °F)	700 °C (1290 °F)	900 °C (1650 °F)	900 °C (1650 °F)	550 °C (1020 °F)	700 °C (1290 °F)	400 °C (750 °F)	1200 °C (2190 °F)	1100 °C (2010 °F)	1100 °C (2010 °F)	700 °C (1290 °F)	800 °C (1470 °F)
Color	Golden Yellow	Blue-Gray	Red Copper	Violet	Blue Black	Gray	Pale Yellow	Silver	Charcoal Gray	Blue Black	Silver Gray	Silver Gray	Black	Gray

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