



RICHTER PRECISION, INC.

Coating Selector Sheet

Proprietary Name	Type	Composition** / Color	Thickness** (microns)	Micro-Hardness	Coefficient of Friction	Oxidation Temp.	Max. Working Temp.	Process Temp.**
 Titanote™ C	PVD	TiN Gold	1-5	2300-2500	0.35	400 °C/ 750 °F	660 °C/ 1220 °F	375 °C/ 700 °F
 Titanote™ C2-SL	PVD	AlTiN - CrN Gray	2-10	3200-3500	0.3	1000 °C/ 1832 °F	950 °C/ 1742 °F	375 °C/ 700 °F
 Titanote™ C3	PVD	CrN/CrC Silver	1-5	2000-2200	0.35	550 °C/ 1020 °F	750 °C/ 1380 °F	375 °C/ 700 °F
 Titanote™ C3+S	PVD	CrN/CrC/(Mo, W)S ₂ Silver/Gray	3-7	2000-2200	0.15	550 °C/ 1020 °F	600 °C/ 1110 °F	375 °C/ 700 °F
 Titanote™ C5	PVD	TiN/TiCN Bronze/Gray	1-5	2800-3200	0.3	350 °C/ 670 °F	450 °C/ 840 °F	375 °C/ 700 °F
 Titanote™ C5B	PVD	TiN/TiCN Blue/Gray	1-5	2800-3200	0.3	350 °C/ 670 °F	450 °C/ 840 °F	375 °C/ 700 °F
 Titanote™ C6	PVD	AlTiN Violet/Black	1-5	3000-3400	0.35	660 °C/ 1100 °F	800 °C/ 1470 °F	375 °C/ 700 °F
 Titanote™ C6+S	PVD	AlTiN/(Mo,W)S ₂ Black/Gray	3-7	3000-3400	0.15	660 °C/ 1100 °F	800 °C/ 1470 °F	375 °C/ 700 °F
 Titanote™ C6B	PVD	TiAlN Copper	1-5	3000-3200	0.35	660 °C/ 1100 °F	800 °C/ 1470 °F	375 °C/ 700 °F
 Titanote™ C7	PVD	TiAlSiCN Blue/Gray	2-10	3200-3500	0.3	1050 °C/ 1922 °F	1000 °C/ 1832 °F	375 °C/ 700 °F
 Titanote™ C8	PVD	ZrN Pale Gold	1-5	2300-2500	0.35	400 °C/ 750 °F	660 °C/ 1100 °F	375 °C/ 700 °F
 Titanote™ C10	PVD	DLC (ta-C) Black	0.5-2.5	5000-9000	0.1	N/A	400 °C/ 750 °F	204 °C/ 400 °F
 Titanote™ C11	PaCVD	DLC (a-C:H) Black	1-4	2000-3000	0.1	N/A	350 °C/ 660 °F	204 °C/ 400 °F
 Titanote™ C12	PVD	Me-DLC Black	1-5	1000-2000	0.1	N/A	350 °C/ 660 °F	160 °C/ 320 °F
 Titanote™ C14	PVD	C-DLC Black	1-3	2200-4000	0.06 - 0.15	N/A	350 °C/ 660 °F	180 °C/ 356 °F
 Titanote™ H	CVD	TiN/TiCN/TiC/TiN Gold	4-12	2400-3200	0.35	440 °C/ 750 °F	600 °C/ 1000 °F	1050 °C/ 1925 °F
 Titanote™ H+	CVD	TiC Silver/Gray	4-12	3200-3400	0.35	440 °C/ 750 °F	600 °C/ 1110 °F	1050 °C/ 1925 °F
 Titanote™ H+S	CVD	TiC/(Mo, W)S ₂ Silver/Gray	4-12	3200-3400	0.15	440 °C/ 750 °F	600 °C/ 1110 °F	1050 °C/ 1925 °F
 Titanote™ HV-820	CVD	TiN/TiCN/Al ₂ O ₃ /TiN Gold	4-9	2200-2400	0.35	N/A	880 °C/ 1470 °F	1050 °C/ 1925 °F
 Titanote™ HV-840	CVD	TiN/TiCN/Al ₂ O ₃ Black	4-9	2200-2400	0.35	N/A	880 °C/ 1470 °F	1050 °C/ 1925 °F
 TDkote™	TD, TRD	VC / Complex Carbides Silver	4-12	3400-3800	0.3	N/A	700 °C/ 1292 °F	950 °C/ 1750 °F
 TDkote™+S	TD, TRD	VC-NbC/(Mo, W)S ₂ Silver/Gray	4-12	3400-3800	0.15	N/A	700 °C/ 1292 °F	950 °C/ 1750 °F
 Titanote™ B	Diffusion	Complex Borides Gray	10-200*	1600-1900	0.4	900 °C/ 1650 °F	N/A	900 °C/ 1650 °F

* This process does not build up on the surface: this measurement indicates the depth of the diffusion layer

** Additional coating compositions, thicknesses, and processing temperatures are available upon request