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.**
Titankote™ C	PVD	TiN Gold	1-5	2300-2500	0.35	400℃/ 750℉	660℃/ 1220℉	375℃/ 700℉
Titankote™ C2-SL	PVD	AlTiN - CrN Gray	2-10	3200-3500	0.3	1000℃/ 1832℉	950℃/ 1742℉	375℃/ 700℉
Titankote™ C3	PVD	CrN/CrC Silver	1-5	2000-2200	0.35	550℃/ 1020℉	750℃/ 1380℉	375℃/ 700℉
Titankote™ C3+S	PVD	CrN/CrC/(Mo, W)S_2 Silver/Gray	3-7	2000-2200	0.15	550℃/ 1020℉	600℃/ 1110℉	375℃/ 700℉
Titankote™ C5	PVD	TiN/TiCN Bronze/Gray	1-5	2800-3200	0.3	350℃/ 670℉	450℃/ 840℉	375℃/ 700℉
Titankote™ C5B	PVD	TiN/TiCN Blue/Gray	1-5	2800-3200	0.3	350℃/ 670℉	450℃/ 840℉	375℃/ 700℉
Titankote™ C6	PVD	AlTiN Violet/Black	1-5	3000-3400	0.35	660℃/ 1100℉	800℃/ 1470℉	375℃/ 700℉
Titankote™ C6+S	PVD	AlTiN/(Mo,W)S_2 Black/Gray	3-7	3000-3400	0.15	660℃/ 1100℉	800℃/ 1470℉	375℃/ 700℉
Titankote™ C6B	PVD	TiAlN Copper	1-5	3000-3200	0.35	660℃/ 1100℉	800℃/ 1470℉	375℃/ 700℉
Titankote™ C7	PVD	TiAlSiCN Blue/Gray	2-10	3200-3500	0.3	1050℃/ 1922℉	1000℃/ 1832℉	375℃/ 700℉
Titankote™ C8	PVD	ZrN Pale Gold	1-5	2300-2500	0.35	400℃/ 750℉	660℃/ 1100℉	375℃/ 700℉
Titankote™ C10	PVD	DLC (ta-C) Black	0.5-2.5	5000-9000	0.1	N/A	400℃/ 750℉	204℃/ 400℉
Titankote™ C11	PaCVD	DLC (a-C:H) Black	1-4	2000-3000	0.1	N/A	350℃/ 660℉	204℃/ 400℉
Titankote™ C12	PVD	Me-DLC Black	1-5	1000-2000	0.1	N/A	350℃/ 660℉	160℃/ 320℉
Titankote™ C14	PVD	C-DLC Black	1-3	2200-4000	0.06 - 0.15	N/A	350℃/ 660℉	180℃/ 356℉
Titankote™ H	CVD	TiN/TiCN/TiC/TiN Gold	4-12	2400-3200	0.35	440℃/ 750℉	600℃/ 1000℉	1050℃/ 1925℉
Titankote™ H+	CVD	TiC Silver/Gray	4-12	3200-3400	0.35	440℃/ 750℉	600℃/ 1110℉	1050℃/ 1925℉
Titankote™ H+S	CVD	TiC/(Mo, W)S_2 Silver/Gray	4-12	3200-3400	0.15	440℃/ 750℉	600℃/ 1110℉	1050℃/ 1925℉
Titankote™ HV-820	CVD	TiN/TiCN/Al_2O_3/TiN Gold	4-9	2200-2400	0.35	N/A	880℃/ 1470℉	1050℃/ 1925℉
Titankote™ HV-840	CVD	TiN/TiCN/Al_2O_3 Black	4-9	2200-2400	0.35	N/A	880℃/ 1470℉	1050℃/ 1925℉
TDkote™	TD, TRD	VC / Complex Carbides Silver	4-12	3400-3800	0.3	N/A	700℃/ 1292℉	950℃/ 1750℉
TDkote™+S	TD, TRD	VC-NbC/(Mo, W)S_2 Silver/Gray	4-12	3400-3800	0.15	N/A	700℃/ 1292℉	950℃/ 1750℉
Titankote™ B	Diffusion	Complex Borides Gray	10-200*	1600-1900	0.4	900℃/ 1650℉	N/A	900℃/ 1650℉

* This proces 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

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