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PVD Coating Datasheet

Coating Properties	Primary Coatings					Specialty Coatings			
Coating Material	TiN ¹	TiCN	TiCN-MP	TiAlN	AlTiN	ZrN	CrN ¹	CBC	TiAlCN
Coating Structure	Mono-layer	Lamellar, Gradient	Lamellar, Gradient	Mono-layer	Mono-layer	Mono-layer	Mono-layer	Gradient	Gradient
Nanohardness (GPa)	24	37	32	35	38	28	18	20	28
Friction (fretting) coefficient	0.55	0.2	0.2	0.5	0.7	0.55	0.3	0.15	0.25
Coating Thickness (µm) <small>(depends on application)</small>	1-5	1-4	1-4	1-4	1-3	1-4	1-4	0.5-2	1-4
Maximum Working Temperature	600° C (1110° F)	400° C (750° F)	400° C (750° F)	800° C (1470° F)	800° C (1470° F)	600° C (1110° F)	700° C (1290° F)	400° C (750° F)	500° C (930° F)
Coating Color	golden yellow	blue-gray	light red	violet	blue-black	pale yellow	silver	charcoal gray	reddish copper

Standard coating temperature is 450° C (840° F).

¹ Special low temperature processes available. Please inquire.