

Coating Properties Chart

	Color	Nano-hardness (GPa)	Thickness Options [um]*	Friction-(fretting)	Max usage temp.
Titanium Nitride (TiN)	Gold	26	1-7	0.40	600°C
Titanium Carbo-Nitride (TiCN)	Blue-Grey	38	1-4	0.25	400°C
Titanium Aluminium Nitride (TiAlN)	Violet-Black	36	1-4	0.50	700°C
Aluminium Titanium Nitride (AlTiN)	Black	32	1-4	0.60	900°C
Chrome Nitride (CrN)	Metal-Silver	20	1-7	0.50	700°C
Zirconium Nitride (ZrN)	White-Gold	22	1-4	0.40	550°C
nACo	Violet-Blue	41	1-4	0.40	1200°C
nACRo	Blue-Grey	40	1-7	0.45	1100°C
nACVlc	Grey	25-40	1-10	0.15	450°C

* Our standard coating aim thickness is 2.5 um (+/- 0.5um). If you require a different thickness, we can provide that with a dedicated chamber run at a minimum chamber load cost.

NOTE: These are our 9 most popular coatings. Because our coating technology is constantly evolving to meet the needs of our customers, we do offer a variety of other coatings that are not shown.

The Platit machines we have in our facility are also capable of producing: SuperTiN, TiAlCN, CrTiN, CROMTIVlc, CROMVlc, AlTiCrN, and TiXCo. Some of these require additional targets to be placed in the machine, and many of them require you to provide a full chamber load of parts, but we are willing to discuss your unique needs and how we may be of assistance.