

# Techmetals Coating Chart

Coating Type	Color	Hardness (Hv)	Thickness (µm)	Coefficient of Friction	Max usage Temp (F)	Description
TM-DLC (Diamond Like Coating)	Black	2500-3300	1-5	0.1	750	Coating with a high mechanical hardness and very low coefficient of friction. Industry Use: Aerospace, Medical, Optics, Molding, and Stamping.
TM-TiN (Titanium Nitride)	Gold	3100—3200	1-5	0.55	1100	Universal coating for all applications. Industry Use: Medical, Molding, and Cutting.
TM-TiCN (Titanium CarboNitride)	Rose	3100-3200	1-5	0.2	750	Coating with high hardness and lower coefficient of friction. Used in low temperature Stamping, Forming, and Cutting.
TM-CrN (Chromium Nitride)	Silver	1800-2000	1-5	0.3	1300	Ductile coating with high release properties. Used in Die Casting, Molding, and Stamping.
TM-AlTiN (Aluminum Titanium Nitride)	Black	3100-3300	1-5	0.7	1600	High temperature and high hardness coatings that provide increased performance in high speed machining. Used in Machining, Stamping, and Sawing.
TM-AlTiCrN (Alum. Titanium Chromium Nitride)	Blue-Gray	3100-3300	1-4	0.5	1550	High temperature, high hardness and smooth coating. Used in Machining and Forming
TM-ZrN (Zirconium Nitride)	Pale Gold	1900-2100	1-4	0.4	1050	Coating with good lubricity. Used in Medical and Machining.

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