



# Ti-Coating News

*Improving Productivity Through Coatings*

Published by Ti-Coating, Inc. 50500 Corporate Drive, Utica, MI 48315, Phone: (586) 726-1900, Fax: (586) 726-1735

Ti-Coating Nomenclature	Composition	Nominal Thickness	Coating Characteristics
<b>PVD (Physical Vapor Deposition)</b>			
PTN-3	TiN  GOLD	Target 2.0 $\mu$	Excellent wear resistance and lubricity. Wide range of applications including: HSS cutting tools, un-honed carbide inserts, punches and dies for the stamping and cold forming industries. 1.0- 3.0 microns
Ti-Rex-4	TiNALOX (TiAlN)  DARK GREY	Target 3.0 $\mu$	Excellent wear resistance at elevated temperatures. Needs heat to perform properly in cutting and forming applications. Excellent for pierce and trim punches in stampings. 3.0- 5.0 microns
PCN-1	TiCN  VIOLET-COPPER	Target 3.0 $\mu$	Good wear resistance and good lubricity. Good for tough cutting applications at moderate temperatures. Excellent for HSS and carbide cold heading and extrusion tools. 3.0- 5.0 microns
Ti-21 "Superior TiN"	Composite TiN  DARK GOLD	Target 4.0 $\mu$	New coating! Excellent lubricity and thermal protection. Will cover an expanded range of applications. Can be used in all applications currently using PVD TiN, TiCN, or TiAlN. 3.0- 5.0 microns
<b>Special</b>			
Microtech	FNC/Tin  GOLD	Target 2.0 $\mu$	Ferritic Nitro-carburized substrate improves durability, with the same characteristics as PTN-3. Applied below 1000° F.

Ti-Coating, Inc. reserves the right to alter coating thickness and layer specifications without notice. 1/08/13km