



PVD Coatings

Coating Material *	TiN	CrN	TiAlN	DLC	ZrN	CRALON	CRALON-S
Coating Microhardness (HV 50), ± 200	2,200	2,000	3,000	4,000	3,000	3,300	3,500
Coating Thickness (µm) **	2-5	2-5	2-5	1-2	2-5	2-5	2-5
Coefficient of Friction (dry over steel)	0.3	0.3	0.5	0.1	0.5	0.5	0.2
Deposition Temp. °C	400	400	400	200	400	400	400
Service Temp. °C (Max.)	600	800	800	500	600	1,100	1,100
Color	Gold	Silver	Gray	Gunmetal	Champagne	Grey	Bronze

* Materials commonly used in PVD coatings, such as titanium nitride (TiN), Chromium Nitride (CrN), Zirconium Nitride (ZrN), and DLC comply with FDA food safety standard in contact with products.

** Coating Thickness capability from 0.5 to 25 µm available upon request

Note: Other PVD coatings are used for equipment parts to protect from premature wear.

Applications:

Surgical Instruments, Implants,
Dental Tools, Processing Equipment,
Tableting Tools, Food Processing Equipment,
Food Packaging, Utensils and Cutlery



Features:

Increased Tool Life
Thin Coatings
Ability to Coat Variety of Materials
Uniform Coverage
Excellent Adhesion
Customization



Benefits:

Chemical Resistance, Enhanced Hygiene
Reduced Friction, Wear Resistance
Low Environmental Impact, Enhanced Performance

