



### PVD Coatings

Coating Material	TiN	CrN	TiAlN	DLC	CRALON	FORMAL-S	FORMAL-V10	FORMAL-MAX
Coating Microhardness (HV 50), ± 200	2,200	2,000	3,000	4,000	3,300	3,800	3,000	3,800
Coating Thickness (µm)	2-5	2-5	2-5	1-3	2-5	2-5	2-5	2-5
Coefficient of Friction (dry over steel)	0.3	0.3	0.5	0.1	0.5	0.2	0.5	0.3
Deposition Temp. °C	400	400	400	200	400	400	400	400
Service Temp. °C (Max.)	600	800	900	500	1,100	1,000	1,000	1,000
Color	Gold	Silver	Gray	Gunmetal	Grey	Bronze	Yellow	Yellow

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

### Thermal Spray – Pulsed HVOF Detonation

Particles velocity-speed, Ultrasound: over 1200 m/s  
Coating porosity: 0.50%, Thickness 50-500 µm



### Deposited Materials

Metals and alloys  
Ceramics – Al<sub>2</sub>O<sub>3</sub>  
Composites – WC/Co  
CrC – Based Powder  
Ti, Ni, Cr, Mo, Cu, Zr, Si, B ... based materials  
Combinations of above materials are also available.