



PVD Coatings

Coating	Composition	Thickness μm Range	Microhardness HV 50, Range	Coefficient of Friction (Dry over steel)	Service Temp. Max $^{\circ}\text{C}$	Deposition Temp. $^{\circ}\text{C}$	Color	Application
D-ARC	DLC, ta-C	1-2	4,000	0.1	500	200	Gunmetal	Tribology / Decorative
D-ARC NANO	DLC, ta-C	2-5	3,000 - 3,500	0.1	500	200	Gunmetal	Tribology
D-ARC CN	DLC, ta-C/a-C:H:N	2-5	2,000 - 2,500	0.1	350	200	Black	Tribology
WC/DLC	WC/a-C:H	2-5	2,000 - 2,500	0.1	350	200	Black	Tribology
V10	VN Based	4-8	3,000	0.5	600	400	Yellow	High Temperature Tribology
Ti based	TiN, TiCN, TiO, TiOCN	2-5	2,000 - 3,000	0.2 - 0.5	400 - 800	400	Gold, Rainbow, Drey	Tribology / Decorative
ZRN	ZrN	2-5	2,500	0.5	600	400	Champagne	Decorative
CRN	CrN	2-5	2,000	0.3	800	400	Silver	Tribology / Decorative
ERCotec	TiSiN Based	20-30	3,000 - 3,500	0.5	800	400	Grey	Erosion Resistance
FORMAL-S	TiSiN Based	4-8	3,500	0.2	1,100	400	Bronze	Tribology / Decorative
CRALON	AlCRN	2-5	3,300	0.5	1,100	400	Grey	Tribology

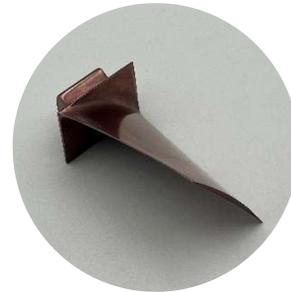
"Coating Thickness capability from 0.5 to 25 μm available upon request"



Sputtek is proud to be an approved N299.3 company and supplies services to nuclear facilities and sub-contractors throughout North America.

Application:

Nuclear Reactor Components, Pump and Turbine Components,
Fuel Handling Equipment,
Pressure Vessel and Pipe Coatings, Instrumentation
Components, Valve Components & Seals,
Nuclear Fuel Handling Equipment, Control Rod Mechanisms &
Drive Systems, Structural Components in Reactor Cores



Features:

Extreme Wear Resistance, Radiation and Thermal Stability
Corrosion and Oxidation Resistance, Low Friction & Anti-Galling
Properties
Non-Contaminating & Chemically Inert, strong adhesion,
Environmentally Friendly



Benefits:

Extended Component Life, Improved Safety &
Reliability, Optimized Efficiency
Lower Maintenance & Downtime, Enhanced
Performance in Extreme Conditions

