

IONBOND standard coatings

NA coating portfolio: forming applications

Coating	Coating Process	Material System	Typical Thickness (μ)	Microhardness HV	Service Temp. ($^{\circ}$ C)	Friction Coefficient	Color
IonBond TiN	PVD	Monolayer	3 to 5	2900	600	0.64	Gold
IonBond TiCN	PVD	Monolayer	1 to 3	4000	400	0.45	Pink
IonBond CrN	PVD	Monolayer	3 to 8	2500	700	0.55	Silver
IonBond TiAlN	PVD	Monolayer	2 to 5	2600	800	0.45	Bronze
IonBond <i>ULTRACAST^R</i>	PVD	Monolayer	4 to 6	3200	800	0.55	
TriboBond 40	PVD	a-C:H:Me	up to 10	800-1800	400	0.1-0.2	Black
TriboBond 41	PVD	a-C:H:Me+a-C:H	up to 5	1500-3000	400	.02-0.1	Black
IonBond Boron Carbide	PVD	B ₄ C	up to 20	3000-4000	800	0.4-0.7	Black
IonBond ADLC	PACVD	aC:H	2	4000	300	0.1	Black
IonBond MoST ^R	PVD	MoS ₂ Variant	2...12	2000 min	450	0.05	Black/grey
IonBond TD Plus	TD	VC	3..10	3200	700	0.2 Polished	Silver
IonBond VANGUARD ^R	TD	VC Variant	3..12	3200	450	0.05	Black/Grey
IonBond TiC	CVD	TiC	38513	3200	350	0.2 Polished	Silver
IonBond TiN/TiC/TiN	CVD	TiN - TiC-TiN	6 to 10	3000	600	0.2 Polished	Gold
Bernex HSE	CVD	Al ₂ O ₃ variant	8 to 12	3400	800	0.5	Dark brown
IonBond TiC/TiN	CVD	TiC/TiN	6 to 10	3000	600	0.2 Polished	Gold