

IONBOND standard coatings

Coatings for components

	Carbon based				Nitride based		Diffusion Based
	TriboBond 40	TriboBond 41	TriboBond 42	IonBond-ADLC	TriboBond 30	TriboBond 01	HK Bernex Hot Corrosion
	a-C:H:Me	a-C:M:Me + a-C:H	Cr _x N + a-C:H	a-C:H	Cr _x N	TiN	Al Diffusion layer
Technology	PVD	PVD/PACVD	PVD/PACVD	PACVD	PVD	PVD	CVD
Hardness (HV)	800-1800	1500-3000	1500-3000	4000	1200-3000	2000-2600	Function of base alloy
Friction coefficient	0.1-0.2	0.02-0.1	0.02-0.1	0.02-0.1	0.4-0.6	0.5-0.7	NA
Thickness (µm)	Up to 10	Up to 5	Up to 5	Up to 5	Up to 50	Up to 8	50 to 100
Max. Temp. (C)	400	350	350	300	750	500	1200
E Modulus (GPa)	80-200	150-250	150-250	180-280	120-260	200-260	Function of base alloy