

Forming and Molding Portfolio



		Thickness µm	Micro Hardness HV 0,025	Friction Coeff	Max Service T°C	Coating type	Color
TiN based	TiN	1 - 6	2 300	0,5	500	monolayer	gold
	TiN High Performance	1 - 4	2 700	0,5	600	Tin + micro alloys	light brown
TiCN based	TiCN	1 - 4	3 200	0,25	450	multilayer	grey
	MpC Form	2 - 6	3 500	0,2	800	ALTiCN	pink
	Deep Draw	2 - 6	2 800	0,3	800	TiCN/CrN	silver
CrN based	CrN Arc	2 - 5	2 000	0,4	700	by arc	metal silver
	CrN Mag	2 - 3	1 800	0,3	700	by sputtering	metal silver
	CrCN Form	2 - 8	2 200	0,3	700	multilayer	metal silver
	CrNOx	1 - 3	2 000	0,3	700	multilayer	metal silver
AlTiN /AlCrN based	AlTiN	2 - 6	3 100	0,5	900	AlTi +micro alloys	dark grey
	AlTiCrN	2 - 5	3 200	0,3	900	AlTi/AlCrN multilayer	anthracite
Duplex based	Duplex Form	2 - 4	3 400	0,5	800	Nitriding + AlTiCN	pink
	Duplex AluCast	2 - 4	3 200	0,5	1 100	Nitriding + AlTiSiN	brown
	Duplex CrN	3 - 6	2 200	0,35	700	Nitriding + CrN	metal silver
	Duplex AlTiN	2 - 6	2 800	0,4	900	Nitriding + AlTiN	dark grey
DLC based	Cr/DLC	2	2 200	0,08	350	PVD/PeCVD	anthracite
	Cr/CrN/DLC	2 - 3	2 300	0,10	350	PVD/PeCVD	anthracite