

SurfTech®	Teflon™	3012 Series	4000 Series	4253 Series	5000 Series	6020 Series	6012 Series	6120 Series	6212 Series
Characteristics	PTFE	CrN	B4C	<b>B4C/MoS2</b>	MoS2	TiN	TiCN	TiAlN	DLC
Applications	AlSi, Al, Ti, Steels, Stainless, Copper	Copper	AlSi, Cast Iron, Steel, Tool Steels, Stainless	<b>AlSi, Al, Ti, Steels, Stainless, Copper</b>	AlSi, Al, Ti, Steels, Stainless, Copper	Universal	Steels	AlSi, Cast Iron, Tool Steels	Al, Copper, Brass
Special Benefits	Lubricous	Cost Effective	Very Hard, Tough	<b>Very Hard, Tough, Dissipates Heat</b>	Prevents build-up on cutting edges for Al & Ti	Cost Effective	Better than TiN in areas where friction is important	Good heat resistance, "quasi" dry, dry machining	Good for Extrusion Dies, Wear parts
Coefficient of Friction	<0.1	<0.6	<0.4	<b>&lt;0.1</b>	<0.1	0.6	<0.5	0.35	<0.15
Coating Structure	Single (Mono)	Single (Mono)	Multilayer	<b>Multilayer</b>	Multilayer	Single (Mono)	Single (mono)	Multilayer	Single (mono)
Coloration of coating	Gray/Black	Dull Silver	Gray/Black	<b>Gray/Silver</b>	Gray/Silver	Gold	Gray/Black	Dark Gray/Black	Black
Thickness of coating	10 – 25 µm	1 – 3 µm	1 – 3 µm	<b>1 – 3 µm</b>	1 – 3 µm	1 – 3 µm	2 – 4 µm	1 – 3 µm	2 – 4 µm
Hardness (HK)	900	2400	4500	<b>4500</b>	2900	2200	2800	3500	4000
Max. Op Temp (deg C)	<400	<600	<1100	<b>&lt;1100</b>	<750	<600	<750	<500	<600
Type of Process	Spray/Bake	PVDI	PVDI	<b>PVDI</b>	PVDI	PVDI	PVDI	PVDI	PVDI

