Machining and Cutting

Coating Portfolio

Sputtek
ADVANCED METALLURGICAL COATINGS

Tools Inserts | Drills | End Drills | Hobs | Broaches | Reamers | Saw Blades

	Coating	Composition	Coating Architecture			Applications						Properties				
Historical Index			Single Layer	Multilayer	Gradient	General	High Alloyed Steel, Ti, Stainless Steel, Super Alloys	Hardened Steel, Cast Iron	Cu & Al, Al with Low Si	Light Metal Al, Mg, Ti	Non Metal Materials: Wood, Plastic, Graphite, etc.	Thickness, µm	Hardness HV ±200	Thermostability °C	Coefficient of Friction (dry over steel)	Colour
PERFORMANCE COATINGS																
–	TiN	TiN	+			+						2-5	2200	600	0.3	Gold
–	TiCN	TiCN		+		+						2-5	3000	400	0.2	Grey/Bronze
–	CRN	CRN Based	+						+			2-5	2000	800	0.3	Silver
–	ZRN	ZRN	+						+	+	+	2-5	3000	600	0.5	Yellow
–	TiAlN	TiAlN Based	+			+						2-5	3000	800	0.5	Grey
ADVANCED HIGH-PERFORMANCE COATINGS																
New	CRALON	AlCR(M)N Based	+			+		+				2-5	3300	1100	0.5	Grey
New	CRALON-S	TiAlVSiN Based		+		+	+	+				2-5	3500	1100	0.2	Bronze
New	Cuttex	TiAlVN Based	+		+	+	+					2-5	3300	900	0.2	Bronze
New	Cuttex M	TiAlSiN Based	+		+		+	+				2-5	3400	900	0.25	Dark Bronze
New	Cuttex S	TiAlCrSiN Based		+		+	+	+			+	2-5	3800	1100	0.2	Bronze
New	Cuttex SM	AlCrTiSiN Based		+		+	+	+			+	2-5	3800	1100	0.4	Grey
New	D-ARC	DLC-Diamond Like Carbon		+	+				+	+	+	2-4	4000	350	<0.1	Grey/Black

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Over 25 Years of Quality Service

Machining with Cralon and Cuttex

Optimized solutions for cutting tools

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	Coating	Composition	Advantages	Properties				
Historical Index				Thickness +/- 2 µm Thickness, um	Hardness HV ±200	Thermostability °C	Coefficient of Friction	Colour
–	CRALON	AlCRN Based	• Standard edge protection • Used for medium applications	5	3300	1100	0.5	Grey
New	CRALON-S	TiAlVSiN Based	• Used in high-speed machining applications • Suitable for tough materials, i.e Alloyed Steel, Stainless Steel & Super Alloys	5	3800	1100	0.2	Bronze
New	Cuttex	TiAlVN Based	• Suitable for Stainless Steel applications as well as general purpose applications • Flexibility of low to higher speeds	5	3300	900	0.2	Bronze
New	Cuttex M	TiAlSiN Based	• General purpose coating for average to demanding machining applications • Optimized performance	5	3400	900	0.25	Bronze
New	Cuttex S	TiAlCrSiN Based	• Demanding applications • High performance coating with improved wear resistance and superior service temperature • Optimal performance in ISO-M & ISO-S applications • High productivity and lower production costs, suitable for high-speed Semi Finishing and Finishing applications	5	3800	1100	0.2	Bronze
New	Cuttex SM	AlCrTiSiN Based	• Optimal coating for drilling, including deep hole drilling and challenging applications • Suitable for Steel, Stainless Steel, Cast Iron and Super Alloys • Superior hardness, wear and temperature resistance	5	3800	1100	0.4	Grey

ADVANTAGES edge protection, high speed machining, longevity, optimized performance, higher productivity, less cost in production.