Coated Grades			05	10	15	20	25	30	35	40	45	50
TN2505		Р										
		M										
Coated hardmetal PVD -TiNAlOx		K										
Light machining		N										
For steel and cast iron hardened up to 64 HRC For dry machining or fan coolant		S										
Tot dry machining or fair coolant	HC-C05	Н										
TN2510		Р										
		М										
Coated hardmetal MT-CVD / CVD - TiN-TiCN-Composite		K										
Medium and heavy machining		N										
For hardened steel, stellite or cast iron up to 64 HRC For mild cast iron at elevated cutting speeds		S										
To find cast non at elevated cutting speeds	HC-H10	Н										
TN2525		Р										
		М										
Coated hardmetal		K										
PVD - TiAIN Light and medium machining		N										
For hardened steel and chilled cast iron 50 - 65 HRC		S										
	HC-H20	Н										
TN450		Р										
Coated hardmetal		М										
CVD - TiN-TiCN-TiN		K										
Medium and heavy machining Extremely tough and thermal shock-resistant grade		N										
Preferably used with coolant		S										
For steels and nodular cast iron	HC-P30	Н										
TN5415		Р										
		M										
Coated hardmetal CVD - TiN-TiCN-Al2O3		K										
Light and medium machining		N										
For cast irons For dry machining or fan coolant	•	S										
,	HC-K15	Н										
TN5505		Р										
Coated hardmetal		М										
MT-CVD / CVD - TiN-TiCN-Al2O3		К										
Light machining For cast irons		N										
Recommended for use at high cutting speeds in favorable	•	S										
conditions	HC-K05	Н										
TN5515		Р										
Coated hardmetal		М										
		K										
MT-CVD / CVD - TiN-TiCN-Al2O3 Light and medium machining		N										
For cast irons	•	S										
	HC-K15	Н										

TN5520 Coated hardmetal MT-CVD / CVD - TIR-TICN-AI2O3 (Ight and medium machining For cast rons) HC-K20 H	Coated Grades			05	10	15	20	25	30	35	40	45	50
Cated hardmetal MT-CVD/CVD-TW-TCK-AZD3 Ugbt and medium machining For cast irons TN6405 TN6405 TN6405 Coated carbide PVD — TAIN Multilayer Ugbt and medium machining of cast iron and nodular cast iron HC-K10 H	TN5520		Р										
MECVD CVD - TIN-TICK-NA203 Ught and medium machning For cast rons HC-K20 H HC-K20 H H H H H H H H H H H H H H H H H H H			M										
Light and medium machining For cast irons HC-K20 H			K										
TN6405 TN6405 HC-K20 H			N										
TN6405 Coated carbide PVD — TIAIN Multilayer Light and medium machining of cast iron and nodular cast iron HC-K10 H		•	S										
Coated carbide PVD — TiAlN Multilayer Light and medium machining of cast iron And nodular cast iron HC-K10 H		HC-K20	Н										
Coated carbide PVD — TIAIN Multilayer Light and medium machining of east iron and nodular cast iron HC-K10 H	TN6405		Р										
TN6425 TN6425 Coated carbide PVD — TIAIN Multilayer Light and medium machining of tast iron and nodular cast iron HC-K10 H			M										
Light and medium machining of cast iron and nodular cast iron HC-K10 H H H H H H H H H H H H H H H H H H H	Coated carbide PVD — TiAIN Multilaver		K										
TN6425 Coated carbide PVD — TIAIN Multilayer Light and medium machining of stainless steel and high temp alloys HC-M25 H HC-M25 H HC-M25 H M Coated carbide PVD — TICN Multilayer. Medium to heavy machining of steel. HC-P25 H TN6501 Costed carbide PVD — TICN multilayer. Medium to heavy machining of steel. TN6501 Costed carbide PVD — TICN multilayer. M K N N HC-N03 H TN6502 Coated carbide PVD — Ti82 on ultra-fine grain carbide light machining For aluminum and magnesium alloys HC-N03 H TN6501 TN6501 TN6502 Coated carbide PVD — TI82 Light machining For aluminum and magnesium alloys HC-N05 H TN6510 Coated carbide PVD — TIR2 Light machining For aluminum and magnesium alloys HC-N05 H K N N N N N N N N N N N N	Light and medium machining of cast iron		N										
TN6425 Coated carbide PVD — TIAIN Multilayer Light and medium machining of stainless steel and high temp alloys HC-M25 H	and nodular cast iron	•	S										
Coated carbide PVD — TIAIN Multilayer Light and medium machining of stainless steel and high temp alloys HC-M25 HC-M25 HC-M25 HC-M25 HC-M25 HC-P25 HC-P3 H		HC-K10	Н										
Coated carbide PVD — TIAIN Multilayer Light and medium machining of stainless steel and high temp alloys HC-M25 HC-M25 HC-M25 HC-M25 HC-M25 HC-M25 HC-P25 HC-P	TN6425		Р										
Coated carbide PVD — TICN Multilayer. Medium to heavy machining of steel. TN6501 Coated carbide PVD — TICN Multilayer. Medium to heavy machining of steel. TN6502 Coated carbide PVD — TICN Multilayer. MC-PVD — TICN Multilayer. MC-NO3 H — MC-NO3 H — MC-NO3 H — MC-NO5 H — MC-NO			M										
Light and medium machining of stainless steel and high temp alloys HC-M25 HC	Coated carbide PVD — TiAIN Multilaver		K										
TN6430 Coated carbide PVD — TICN Multilayer. Medium to heavy machining of steel. HC-P25 H HC-P25 H M K H H H H H H H H H H H H	Light and medium machining of stainless steel		N										
TN6430 Coated carbide PVD — TiCN Multilayer. Medium to heavy machining of steel. HC-P25 H TN6501 Coated carbide PVD - TiB2 on ultra-fine grain carbide Light machining For aluminum and magnesium alloys HC-N03 H TN6502 Coated carbide PVD - TiB2 Light machining For aluminum and magnesium alloys HC-N05 H TN6510 Coated carbide PVD - TiB2 Light machining For aluminum and magnesium alloys TN6510 Coated carbide PVD - TiB2 Light machining For aluminum and magnesium alloys S S S S S S S S S S S S S S S S S S S			S										
Coated carbide PVD — TiCN Multilayer. Medium to heavy machining of steel. HC-P25 HC-P25 HC-P25 H K N K N K N HC-P25 H K N K N K N K N K N K N K N K N K N K N K N K N K N K N K N K N K N K N K N K N K N K N K N K N K N K N K N K N K N K N K N K N K N K N K N K N K N K N K N K N K K		HC-M25	Н										
Coated carbide PVD — TiCN Multilayer. Medium to heavy machining of steel. HC-P25 H	TN6430		Р										
Coated carbide PVD — TiCN Multilayer. Medium to heavy machining of steel. HC-P25 H	1110130		M										
Medium to heavy machining of steel. HC-P25 H TN6501 Coated carbide PVD - TiB2 on ultra-fine grain carbide Light machining For aluminum and magnesium alloys HC-N03 H TN6502 Coated carbide PVD - TiB2 Light machining For aluminum and magnesium alloys HC-N05 H TN6510 Coated carbide PVD - TiAlN Multilayer Light machining For cast irons			K										
TN6501 Coated carbide PVD - Ti82 on ultra-fine grain carbide Light machining For aluminum and magnesium alloys HC-N03 H TN6502 Coated carbide PVD - Ti82 Light machining For aluminum and magnesium alloys HC-N05 H TN6510 Coated carbide PVD - Ti82 Light machining For aluminum and magnesium alloys HC-N05 H TN6510 Coated carbide PVD - TiAlN Multilayer Light machining For cast irons			N										
TN6501 Coated carbide PVD - TiB2 on ultra-fine grain carbide Light machining For aluminum and magnesium alloys HC-N03 H TN6502 Coated carbide PVD - TiB2 Light machining For aluminum and magnesium alloys HC-N05 HC-N0	Wedum to neavy machining of steel.		S										
Coated carbide PVD - TiB2 on ultra-fine grain carbide Light machining For aluminum and magnesium alloys HC-N03 H TN6502 Coated carbide PVD - TiB2 Light machining For aluminum and magnesium alloys HC-N05 H TN6510 Coated carbide PVD - TiAIN Multilayer Light machining For cast irons		HC-P25	Н										
Coated carbide PVD - TiB2 on ultra-fine grain carbide Light machining For aluminum and magnesium alloys HC-N03 H TN6502 Coated carbide PVD - TiB2 Light machining For aluminum and magnesium alloys HC-N05 H TN6510 Coated carbide PVD - TiAlN Multilayer Light machining For cast irons	TN6501		Р										
PVD - TiB2 on ultra-fine grain carbide Light machining For aluminum and magnesium alloys HC-N03 H TN6502 Coated carbide PVD - TiB2 Light machining For aluminum and magnesium alloys HC-N05 H TN6510 Coated carbide PVD - TiAlN Multilayer Light machining For cast irons R R R R R R R R R R R R R			M										
Light machining For aluminum and magnesium alloys HC-N03 H			K										
For aluminum and magnesium alloys HC-N03 H TN6502 Coated carbide PVD - Ti82 Light machining For aluminum and magnesium alloys HC-N05 H TN6510 Coated carbide PVD - TiAlN Multilayer Light machining For cast irons			N										
TN6502 Coated carbide PVD - TiB2 Light machining For aluminum and magnesium alloys HC-N05 H TN6510 Coated carbide PVD - TiAlN Multilayer Light machining For cast irons		_	S										
Coated carbide PVD - TiB2 Light machining For aluminum and magnesium alloys HC-N05 HC-N05 H Coated carbide PVD - TiAIN Multilayer Light machining For cast irons		HC-N03	Н										
Coated carbide PVD - TiB2 Light machining For aluminum and magnesium alloys HC-N05 H TN6510 Coated carbide PVD - TiAIN Multilayer Light machining For cast irons	TN6502		Р										
PVD - TiB2 Light machining For aluminum and magnesium alloys HC-N05 HC-N05 H Coated carbide PVD - TiAlN Multilayer Light machining For cast irons			M										
Light machining For aluminum and magnesium alloys HC-N05 HC-N05 H Coated carbide PVD - TiAlN Multilayer Light machining For cast irons			K										
For aluminum and magnesium alloys HC-N05 H TN6510 Coated carbide PVD - TiAlN Multilayer Light machining For cast irons S K N S N S N S S S S S S S S			N										
TN6510 Coated carbide PVD - TiAIN Multilayer Light machining For cast irons			S										
Coated carbide PVD - TiAIN Multilayer Light machining For cast irons M K N S S S S S S S S S S S S S S S S S S		HC-N05	Н										
Coated carbide PVD - TiAIN Multilayer Light machining For cast irons M K N S S S S S S S S S S S S S S S S S S	TN6510		Р										
Coated carbide PVD - TiAIN Multilayer Light machining For cast irons K N S S	1110010												
PVD - TiAIN Multilayer Light machining For cast irons N S S	Coated carbide												
For cast irons													
I III-IVIU - III-I I I I I I I I I I I I I I I I		HC-K10	Н										

Coated Grade	s		05	10	15	20	25	30	35	40	45	50
TN6520		Р										
		M										
Coated carbide		K										
PVD - TiAlN Multilayer Light and medium machining		N										
For cast irons		S										
	HC-K20	Н										
TN6525		Р										
1110323		M										
Coated carbide		K										
PVD - TiAlN Multilayer		N										
Light and medium machining For steels and high-strength nodular cast iron		S										
	HC-P25	Н										
TN6540		Р										
INOUTO		M										
Coated carbide		K										
PVD - TiAlN Multilayer		N										
Medium and heavy machining For steels and nodular cast iron		S										
	HC-P40	Н										
TNITAGE	110-1-40	Р										
TN7435		M										
Coated carbide												
CVD - TiN-Al2O3		K										
Medium and heavy machining For steels and nodular cast iron		N										
Use with or without coolant	110 005	S										
	HC-P35	Н										
TN7525		Р										
		M										_
Coated carbide MT-CVD / CVD - TiN-TiCN-Al2O3-TiN		K										
Light and medium machining		N										
For steels and nodular cast iron		S										
	HC-P25	Н										
TN7535		Р										
Control countide		M										
Coated carbide MT-CVD / CVD - TiN-TiCN-Al2O3		K										
Medium and heavy machining		N										
For steels and nodular cast iron Can be used in unfavorable conditions	•	S										
	HC-P35	Н										
Uncoated Grad	es		05	10	15	20	25	30	35	40	45	50
THM		Р										
		M										
Uncoated carbide		K										
Light and medium machining		N										
For cast irons, difficult-to-machine alloys, and all non-ferrous metals and non-metals		S										
	HW-K15	Н										
	1 1100 1/13	- 1										

Uncoated Grade	es		05	10	15	20	25	30	35	40	45	50
THM-F		Р										
		M										
Uncoated carbide		K										
Light machining		N										
For non-ferrous metals and gray or malleable cast iron		S										
	HF-K10	Н										
TIINAII		Р										
THM-U		M										
Uncoated carbide Ultra fine-grain grade with excellent wear resistance and		K										
cutting edge sharpness												
Light and medium machining		N										
For aluminum alloys with max. 12% silicon and magnesium alloys		S										
	HF-N05	Н										
THR		Р										<u> </u>
		M										
Uncoated carbide Medium and heavy machining		K										
		N										
For cast iron, non-ferrous metals, and titanium alloys		S										
	HW-K25	Н										
TTM		Р										
		М										
		K										
Uncoated carbide Medium machining		N										
For steels and nodular cast iron		S										
	HW-P25	H										
	1100-1 23	Р										
TTR												
Uncoated carbide		M								Ι		
Medium and heavy machining		K										
For steels and nodular cast iron Recommended for unfavorable conditions at low cutting		N										
speeds		S										<u> </u>
	HW-P35	Н										
TK10M		Р										
		M										
Uncoated K10 grade. Recommended for machining of non-ferrous materials		K										
and high temperature alloys.		N										
good wear resistance.		S										
designed to run with coolant.	HW-K10	Н										
Cermet Grades	<u>'</u>		05	10	15	20	25	30	35	40	45	50
TTI25		Р										
Cermet		М										
Light and medium machining Extremely good wear resistance For steels and nodular cast iron Recommended at high cutting speeds under favorable		K										
		N										
		S										
conditions	HT-P15	Н										
	111-513	11										