

TOSHIBA TUNGALOY INSERTS

Toshiba Tungaloy Insert Grades



CERMET GRADES

Cermet Grades	Properties	Application
NS530	Has high wear resistant and excellent thermal and mechanical shock resistance. Performs well in wet cutting	General purpose grade covering a wide range of cutting conditions from low to high speeds for various steels
AT530	TiAlN coated cermet. Provides superior resistance to flank wear and adhesive wear	Suitable for high speed turning of steels and stainless steels requiring better surface roughness and longer tool life

COATED CARBIDE GRADES

Coated Carbide Grades	Properties	Application
T9005	Ti + AlOxide; DISK Technology substrate with special advanced coating	High speed cutting of steels and cast irons
T9015	Ti + AlOxide; DISK Technology substrate with special advanced coating	For general purpose turning of steels and stainless steels
T9025	Ti + AlOxide; DISK Technology substrate with special advanced coating	For general purpose turning of steels and stainless steels including interrupted and heavy cutting
T9035	Ti + AlOxide; DISK Technology substrate with special advanced coating	For general purpose turning of steels and stainless steels including severely interrupted and very heavy cutting of steels
T6020	Ti + AlOxide; tough substrate with new advanced coating	For general purpose turning of steels and stainless steels
T6030	Ti + AlOxide; extra tough substrate with new advanced coating	For rough and heavy turning of stainless steels
T5020	Ti + AlOxide; well balanced wear resistance and toughness	Roughing and interrupted turning of cast irons
AH110	TiAlN coating; heat resistant coating and hard substrate allows excellent wear resistance	Turning of super (high temp) alloys and Non ferrous metals
AH120	TiAlN coating; heat resistant coating and extremely hard substrate allows highest wear resistance	Turning and Milling of super (high temp) alloys, steels, stainless steels - great all purpose grade.
GH330	TiCnO Coated carbide	General milling and turning of steels

UNCOATED CARBIDE GRADES

Uncoated Carbide Grades	Properties	Application
TH10	K10(C2) type uncoated carbide - good overall wear resistance and toughness	General turning of Non Ferrous materials
H10T	Used for positive (boring) inserts; K10(C2) type uncoated carbide - good overall wear resistance and toughness	General boring of Non Ferrous materials

Toshiba Tungaloy Insert Chipbreakers

Chip Breakers	Descriptions
TS	For Finishing - landless sharp cutting edges and large rake angle; excellent all round chipbreaker for finishing Steels
TM	For Medium cutting - unique breaker geometry with sharp cutting edges and large rake angle assures free cutting action in a wide range of cutting conditions - excellent for medium cutting of steels and super (high temp) alloys
TH	For Heavy cutting Double sided 3 dimensional chipbreaker with a wide land and broad groove used for medium to heavy cutting including interrupted cuts and in poor conditions - excellent for heavy and interrupted cutting of steels, stainless steels and super (high temp) alloys
SS	For finishing - 3 dimensional chipbreaker with a large rake angle; very free cutting and most suitable for stainless steels and mild steels
SM	For Medium cutting - 3 dimensional chipbreaker offers low cutting forces over a wide range of cutting conditions - especially suited for medium cutting of stainless steels and mild steels
SA	For finishing - designed to reduce contact area between tool and chip, preventing the insert from raising temperature during cutting - designed especially for medium cutting of stainless steels and super (high temp) alloys
P	For non ferrous metals - very sharp cutting edges
PM	3 dimensional chipbreaker - has positive yet strong edge, provides good chip control for medium to rough cutting.
PP	For general boring of Non Ferrous metals - high positive rake and very sharp cutting edges - low cutting forces and no chatter
PS	For finish to medium boring on positive inserts - steels, stainless steels
28	For general turning of Non ferrous metals - high positive rake angle for low cutting forces and excellent shearing ability - also effective for stainless steels and super (high temp) alloys

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