



CUT-OFF AND GROOVING GRADES

COATED

UNCOATED

	COATED	UNCOATED
K	30	
	20	
	10	
P	10	
	20	
	30	
	40	

COATED Grades: Z11 (10), Zi9 (20), Z7 (30), Z6P (40)

UNCOATED Grades: Z9 (20), Z3F (40)

Cut Types: CONTINUOUS CUT (top right), INTERRUPTED CUT (bottom right)

DESCRIPTION



Z11 This grade has a functional gradient substrate and a low content of cobalt with a unique dual coating obtained from the combination of CVD and PVD methods and a main layer TiN and Al₂O₃. It is an excellent grade for finishing and medium roughing of materials group P and K and in some conditions it could be used also for materials group M. This grade is suitable for good continuous and conditionally also moderate interrupted cut with high cutting speed.

SUGGESTED USAGE: CAST IRON AND HARD STEEL

Z7 This grade has a submicron substrate without cubical carbide. It is an outstanding grade for medium roughing as well as heavy roughing of materials group P and M, it is applicable also for group K and conditionally for S. This grade is suitable for unfavourable cutting conditions and interrupted cut with lower up to medium cutting speed.

SUGGESTED USAGE: GENERAL PURPOSE OF STEEL

Z9 The grade Z9 is a special MT-CVD coating for machining of steel and cast-iron

SUGGESTED USAGE: STEEL AND CAST IRON

Zi9 The latest Zi9 grade features a functional gradient substrate, and special MT-CVD coating. This combination offers high cutting strength, reduced built-up edge, and resistance to the formation of cracks. As a result, the grade delivers a high level of operational reliability, performance and tool life.

SUGGESTED USAGE: STAINLESS STEEL

Z6P This grade has a submicron substrate type H and a nanostructural coating applied by PVD method. It combines good wear resistance and good operational reliability. It is a general purpose grade for materials group M,S,P and K. This grade is suitable for less favourable cutting conditions with medium cutting speed.

SUGGESTED USAGE: STEEL, STAINLESS STEEL AND TITANIUM



Z3F This grade has a submicron substrate without cubical carbide. It is an outstanding grade for materials group P and M, it is applicable also for group K and conditionally for S. This grade is suitable for unfavourable cutting conditions and interrupted cut with lower up to medium cutting speed.

SUGGESTED USAGE: MANUAL LATHE WITH LOW SPEED