



CNMG.M 542 Z12



APPLICATION

- Suitable for fine to medium machining of steels
- Continuous cutting conditions

GRADE Z12

This grade is a MT-CVD coated functionally graded WC-Co carbide within ISO range P05-P25, for fine to heavy machining of steels

	STEEL	STAINLESS	CAST IRON	NON FERROUS	S.ALLOYS	HEAT TREATED
GROUP	P15		K10			H10
Sfm ft/min	541 - 984		509 - 935			98 - 197
Fn Inch/rev	.006 - .020		.006-.020			.004 - .010
ap Inch	.031 - .276		.031 - .276			.016 - .039

LEGEND

Sfm (Vc)	Surface Feet per Minute
Fn (ipr)	Feed per revolution
Fz (ipt)	Feed per tooth
ap	Depth of cut

FORMULA

$S \text{ (RPM)} = Sfm * 12 / \pi / D = \text{rev per minute}$
$F \text{ (IPR, inch per revolution)} = S * Fn = \text{feed per minute}$
$F \text{ (IPM, inch per minute)} = S * Fz * n.\text{flutes} = \text{feed per minute}$
$Sfm = S * D * \pi / 12$

TURNING CARBIDE INSERT