

CNMG.SM 643 ZSL12



APPLICATION

- Suitable for fine to heavy machining of steels, stainless-steels, cast-irons and super-alloys
- Continuous and interrupted cut



GRADE ZSL12

This grade is a PVD coated extra fine grained WC-Co carbide within ISO ranges P01 - P15/M01 - M15/K05 - K20/S01 - S15 and H01 - H15, for fine to heavy machining of steels, stainless-steels, cast-irons and super-alloys

	STEEL	STAINLESS	CAST IRON	NON FERROUS	S.ALLOYS	HEAT TREATED
GROUP	P01 - P15	M01-M15	K05 - K20	N01 - N15	S01 - S15	H01 - H15
Sfm ft/min	328 - 607	230 - 427	262 - 476	492 - 2116	66 - 213	66 - 115
Fn Inch/rev	.010 - .022	.010 - .020	.010 - .022	.010 - .026	.010 - .020	.005 - .011
ap Inch	.047 - .236	.047 - .236	.047 - .236	.047 - .236	.047 - .189	.024 - .059

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