

**Garant**
**Solid carbide milling cutter TPC, uncoated, Ø h6 DC: 16mm**

**Order data**

Order number	202281 16
GTIN	4045197773326
Item class	11X

**Description**
**Version:**

**Eccentric relief ground**, additionally **polish ground** in the flutes for **outstanding chip evacuation** in long-chipping aluminium workpieces.

With double chip-breaker for exemplary chip formation.

**Note:**

$a_{e \max} = 0.12 \times D$  for TPC machining.

$h_{\max}$ : The values stated in the table are maximum values.

**Technical description**

Flute length $L_c$	65 mm
Corner chamfer width at 45°	0.2 mm
Balance quality with shank	G 2.5 with HB
Shank form	HB
No. of teeth Z	3
Shank Ø $D_s$	16 mm
Shank	DIN 6535 HB to h6
Cutting edge Ø $D_c$	16 mm
Overall length L	132 mm
Tolerance nominal Ø	h6
Direction of infeed	horizontal, oblique and vertical
Recess Ø $D_1$	15 mm

Overhang length $L_1$ incl. recess	80 mm
Average chip thickness $h_{max}$ for TPC milling in short-chipping aluminium	0.096 mm
Helix angle	45 degrees
Corner chamfer angle	45 degrees
Coating	uncoated
Tool material	Solid carbide
Standard	Manufacturer's standard
Type	W
Helix angle characteristic	unequal spacing
Cutting width $a_e$ for milling operation	$0.12 \times D$
Through-coolant	no
Machining strategy	TPC
Colour ring	yellow
Type of product	End / face mill

## User data

	Suitability	$V_c$	ISO code
Aluminium	Suitable	130 m/min	N
Aluminium (short chipping)	suitable	100 m/min	N
Alu > 10% Si	suitable	85 m/min	N
PMMA acrylic	suitable	125 m/min	N
PE-HD	Suitable	90 m/min	N
PA 66	Suitable	100 m/min	N
PEEK	suitable	80 m/min	N
PF 31	Suitable	70 m/min	N
Honeycomb sandwich	suitable only under restricted conditions	100 m/min	N
Cu	Suitable	70 m/min	N

CuZn	Suitable	90 m/min	N
wet maximum	suitable		
wet minimum	suitable		
dry	suitable only under restricted conditions		
Air	suitable only under restricted conditions		