

MICRO-ALÉSOIR-MACHINE-DENTURE-HÉLICOÏDALE- MD-E25UF · MICRO-REAMER-SPIRAL-FLUTED-SC-E25UF · MICRO-REIBAHLEN-SPIRALGENUTET-HM-E25UF



SWISS MADE

47450-2.70

Version 07.05.2026

E25
UF

CARBIDE TOOL MATERIAL E25 UF

$\lambda = -5^\circ$
 $\gamma = 5^\circ$

CUTTING ANGLES $\gamma = -5^\circ \text{ ? } 5^\circ$

MATERIAL COMPATIBILITY

●●● Excellent (3/3) ●●○ Good (2/3) ●○○ Possible (1/3) ○○○ Not recommended

MATERIAL	SPECIFICATION	GRP	47450-2.70
Alloyed and non-alloyed steels Non-alloyed steels	$R_m < 450 \text{ N/mm}^2$	1a	●●●
	$R_m 450\text{--}700 \text{ N/mm}^2$	1b	●●●
	$R_m 700\text{--}900 \text{ N/mm}^2$	1c	●●●
	$R_m > 1200 \text{ N/mm}^2$	1d	●●●
Stainless steels Stainless steels	$R_m < 650 \text{ N/mm}^2$	2a	●●●
	$R_m 650\text{--}950 \text{ N/mm}^2$	2b	●●●
	$R_m > 950 \text{ N/mm}^2$	2c	●●●
Hardened steels Hardened steels	44–56 HRC	3a	●○○
	57–67 HRC	3b	●○○
Exotic materials Special alloys	< 32 HRC	4a	●●○
	> 32 HRC	4b	●●○
Graphite Industrial graphite		5	●●●
Cast iron Grey / nodular cast iron	< 32 HRC	6a	●●●
	> 32 HRC	6b	●●●
Titanium Titanium alloys	$R_m < 600 \text{ N/mm}^2$	7a	●●●
	$600 < R_m \text{ N/mm}^2$	7b	●●●
Nickel alloys Inconel, Hastelloy	$R_m < 1000 \text{ N/mm}^2$	8a	●●○
	$R_m > 1000 \text{ N/mm}^2$	8b	●●○
Copper, brass, bronze Copper-based	$R_m < 850 \text{ N/mm}^2$	9a	●●●
	$R_m > 850 \text{ N/mm}^2$	9b	●●●
Aluminum Aluminum alloys	$Si < 0.5\%$	10a	●●●
	$0.5\% < Si < 5\%$	10b	●●●
	$Si > 5\%$	10c	●●○
Synthetic materials Engineering plastics	Thermoplastic	11a	●●●
	Thermoset	11b	●●●
Composite materials Reinforced composites	Glass fiber / GFK	12a	●●●
	Carbon fiber / KFK	12b	●●●
Precious metals Gold, platinum, silver	Gold	13a	●●●
	Platinum	13b	●●○

TECHNICAL DRAWING



DIMENSIONS

NOMINAL DIMENSIONS

D (0 / -0.01)	2.7 mm
d (h5)	3 mm
L	50 mm
l1	10 mm
l3	22 mm
d3	–
R	–
e	–
Z	4
Chamfer K	0.3
w° collision	0.4°



E-SHOP / EZI CUT
eskenazi.ch/eshop/47450-2.70

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