

# MICRO-FRAISE-D'ÉBAUCHE Z3 · ROUGHING-MICRO-ENDMILL Z3 · MIKROSCHRUPPFRÄSER Z3



29510A-1-4

Version 21.06.2026

SWISS MADE

E25  
UF

CARBIDE TOOL  
MATERIAL E25 UF

$\lambda = 20^\circ$   
 $\gamma = 6^\circ$

CUTTING ANGLES  $\lambda 20^\circ$  ?  
 $\gamma 6^\circ$

45°

45° PRECISION ANGLE  
MEASUREMENT



DUAL DIRECTION  
HELICAL DRILL BIT

h<sub>1</sub>  
2.5xD

2.5xD DEPTH FOR  
DRILLING



STANDARD TOOL WEAR  
INDICATOR

## MATERIAL COMPATIBILITY

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

MATERIAL	SPECIFICATION	GRP	29510A-1-4
<b>Alloyed and non-alloyed steels</b> Non-alloyed steels	Rm < 450 N/mm <sup>2</sup>	1a	●●●
	Rm 450–700 N/mm <sup>2</sup>	1b	●●●
	Rm 700–900 N/mm <sup>2</sup>	1c	●●●
	Rm > 1200 N/mm <sup>2</sup>	1d	●○○
<b>Stainless steels</b> Stainless steels	Rm < 650 N/mm <sup>2</sup>	2a	●●●
	Rm 650–950 N/mm <sup>2</sup>	2b	●●●
	Rm > 950 N/mm <sup>2</sup>	2c	●●●
<b>Hardened steels</b> Hardened steels	44–56 HRC	3a	○○○
	57–67 HRC	3b	○○○
<b>Exotic materials</b> Special alloys	< 32 HRC	4a	●●○
	> 32 HRC	4b	●●○
<b>Graphite</b> Industrial graphite		5	○○○
<b>Cast iron</b> Grey / nodular cast iron	< 32 HRC	6a	●●●
	> 32 HRC	6b	●●●
<b>Titanium</b> Titanium alloys	Rm < 600 N/mm <sup>2</sup>	7a	●●●
	600 < Rm N/mm <sup>2</sup>	7b	●●●
<b>Nickel alloys</b> Inconel, Hastelloy	Rm < 1000 N/mm <sup>2</sup>	8a	●●○
	Rm > 1000 N/mm <sup>2</sup>	8b	●●○
<b>Copper, brass, bronze</b> Copper-based	Rm < 850 N/mm <sup>2</sup>	9a	●●●
	Rm > 850 N/mm <sup>2</sup>	9b	●●●
<b>Aluminum</b> Aluminum alloys	Si < 0.5%	10a	○○○
	0.5% < Si < 5%	10b	○○○
	Si > 5%	10c	○○○
<b>Synthetic materials</b> Engineering plastics	Thermoplastic	11a	○○○
	Thermoset	11b	○○○
<b>Composite materials</b> Reinforced composites	Glass fiber / GFK	12a	○○○
	Carbon fiber / KFK	12b	○○○
<b>Precious metals</b> Gold, platinum, silver	Gold	13a	●●●
	Platinum	13b	●●○

## TECHNICAL DRAWING



## DIMENSIONS

### NOMINAL DIMENSIONS

D (0 / -0.01)	1 mm
d (h5)	4 mm
L	50 mm
l <sub>1</sub>	2.5 mm
l <sub>3</sub>	–
d <sub>3</sub>	–
R	–
e	–
Z	3
Chamfer K	0.15
w° collision	9.8°



E-SHOP / EZI CUT  
eskenazi.ch/eshop/29510A-1-4

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