

E25
UF

ULTRAFINE GRADE HIGH-END GRADE WITH VERY HIGH
HARDNESS AND TOUGHNESS FOR MICRO-MACHINING

angle
vif

SHARP EDGE



SIDE AND CENTER CUT

MATERIAL COMPATIBILITY

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

Product material compatibility

CATEGORY	MATERIAL	SPECIFICATION	GRP	21013-2.5
Alloyed and non-alloyed steels	Non-alloyed steels	Rm < 450 N/mm²	1a	○ ○ ○ 0/3
		Rm 450–700 N/mm²	1b	○ ○ ○ 0/3
		Rm 700–900 N/mm²	1c	○ ○ ○ 0/3
		Rm > 1200 N/mm²	1d	○ ○ ○ 0/3
Stainless steels	Stainless steels	Rm < 650 N/mm²	2a	● ○ ○ 1/3
		Rm 650–950 N/mm²	2b	● ○ ○ 1/3
		Rm > 950 N/mm²	2c	● ○ ○ 1/3
Hardened steels	Hardened steels	44–56 HRC	3a	○ ○ ○ 0/3
		57–67 HRC	3b	○ ○ ○ 0/3
Exotic materials	Special alloys	< 32 HRC	4a	○ ○ ○ 0/3
		> 32 HRC	4b	○ ○ ○ 0/3
Graphite	Industrial graphite		5	○ ○ ○ 0/3
Cast iron	Grey / nodular cast iron	< 32 HRC	6a	○ ○ ○ 0/3
		> 32 HRC	6b	○ ○ ○ 0/3
Titanium	Titanium alloys	Rm < 600 N/mm²	7a	○ ○ ○ 0/3
		600 < Rm N/mm²	7b	○ ○ ○ 0/3
Nickel alloys	Inconel, Hastelloy	Rm < 1000 N/mm²	8a	○ ○ ○ 0/3
		Rm > 1000 N/mm²	8b	○ ○ ○ 0/3
Copper, brass, bronze	Copper-based	Rm < 850 N/mm²	9a	● ● ● 3/3
		Rm > 850 N/mm²	9b	● ● ● 3/3
Aluminum	Aluminum alloys	Si < 0.5%	10a	● ● ○ 2/3
		0.5% < Si < 5%	10b	● ● ○ 2/3
		Si > 5%	10c	○ ○ ○ 0/3
Synthetic materials	Engineering plastics	Thermoplastic	11a	○ ○ ○ 0/3
		Thermoset	11b	○ ○ ○ 0/3
Composite materials	Reinforced composites	Glass fiber / GFK	12a	○ ○ ○ 0/3
		Carbon fiber / KFK	12b	○ ○ ○ 0/3
Precious metals	Gold, platinum, silver	Gold	13a	● ● ● 3/3
		Platinum	13b	○ ○ ○ 0/3

TECHNICAL DRAWING



DIMENSIONS

NOMINAL DIMENSIONS	
D (0 / -0.01)	2.5 mm
d (h5)	3 mm
L	38 mm
l1	4 mm
l3	–
d3	–
R	–
e	–
Z	1
Chamfer K	–
w° collision angle	3°



E-SHOP / EZI CUT
eskenazi.ch/eshop/21013-2.5