

E25
UF

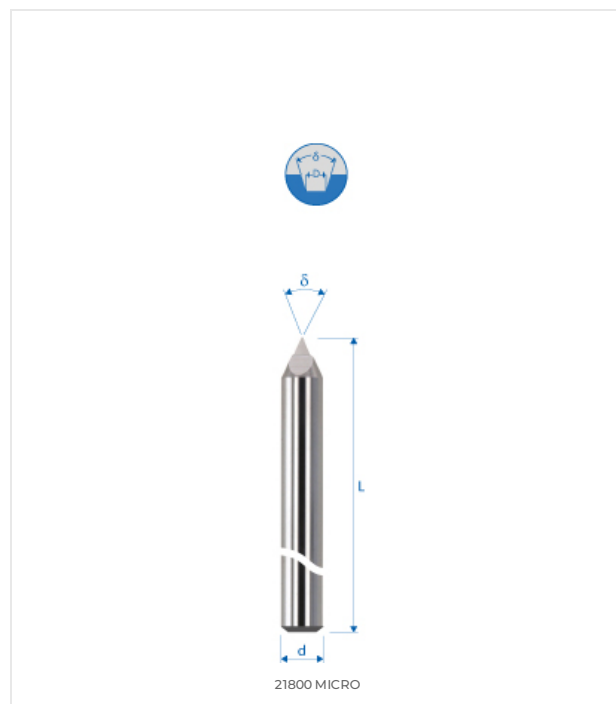
CARBIDE TOOL MATERIAL E25 UF

MATERIAL COMPATIBILITY

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

MATERIAL	SPECIFICATION	GRP	21800-0.03-50
Alloyed and non-alloyed steels Non-alloyed steels	Rm < 450 N/mm ²	1a	○○
	Rm 450–700 N/mm ²	1b	○○
	Rm 700–900 N/mm ²	1c	○○
	Rm > 1200 N/mm ²	1d	○○
Stainless steels Stainless steels	Rm < 650 N/mm ²	2a	○○
	Rm 650–950 N/mm ²	2b	○○
	Rm > 950 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	Rm < 600 N/mm ²	7a	○○
	600 < Rm N/mm ²	7b	○○
Nickel alloys Inconel, Hastelloy	Rm < 1000 N/mm ²	8a	○○
	Rm > 1000 N/mm ²	8b	○○
Copper, brass, bronze Copper-based	Rm < 850 N/mm ²	9a	●●●
	Rm > 850 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)	0.03 mm
d (h5)	3 mm
L	38 mm
l1	1.2 mm
l3	–
d3	–
R	–
e	–
Z	1
Chamfer K	–
w° collision	11.3°

