

FRAISE-À-GRAVER-MD-E25UF-+-EZI\_ALPHA ·  
ENGRAVING-ENDMILL-SC-E25UF-+-EZI\_ALPHA ·  
GRAVIERSTICHEL-HM-E25UF-+-EZI\_ALPHA



SWISS MADE

21800B-0.04-60 Version 11.09.2026

E25  
UF

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

MATERIAL COMPATIBILITY

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

Product material compatibility

| CATEGORY                       | MATERIAL                 | SPECIFICATION                | GRP | 21800B-0.04-60 |
|--------------------------------|--------------------------|------------------------------|-----|----------------|
| Alloyed and non-alloyed steels | Non-alloyed steels       | Rm < 450 N/mm <sup>2</sup>   | 1a  | ●●● 3/3        |
|                                |                          | Rm 450–700 N/mm <sup>2</sup> | 1b  | ●●● 3/3        |
|                                |                          | Rm 700–900 N/mm <sup>2</sup> | 1c  | ●●● 3/3        |
|                                |                          | Rm > 1200 N/mm <sup>2</sup>  | 1d  | ●●● 3/3        |
| Stainless steels               | Stainless steels         | Rm < 650 N/mm <sup>2</sup>   | 2a  | ●●● 3/3        |
|                                |                          | Rm 650–950 N/mm <sup>2</sup> | 2b  | ●●● 3/3        |
|                                |                          | Rm > 950 N/mm <sup>2</sup>   | 2c  | ●●● 3/3        |
| Hardened steels                | Hardened steels          | 44–56 HRC                    | 3a  | ●●○ 2/3        |
|                                |                          | 57–67 HRC                    | 3b  | ●○○ 1/3        |
| Exotic materials               | Special alloys           | < 32 HRC                     | 4a  | ●●○ 2/3        |
|                                |                          | > 32 HRC                     | 4b  | ●●○ 2/3        |
| Graphite                       | Industrial graphite      |                              | 5   | ●●○ 2/3        |
| Cast iron                      | Grey / nodular cast iron | < 32 HRC                     | 6a  | ●●● 3/3        |
|                                |                          | > 32 HRC                     | 6b  | ●●● 3/3        |
| Titanium                       | Titanium alloys          | Rm < 600 N/mm <sup>2</sup>   | 7a  | ●●● 3/3        |
|                                |                          | 600 < Rm N/mm <sup>2</sup>   | 7b  | ●●● 3/3        |
| Nickel alloys                  | Inconel, Hastelloy       | Rm < 1000 N/mm <sup>2</sup>  | 8a  | ●●○ 2/3        |
|                                |                          | Rm > 1000 N/mm <sup>2</sup>  | 8b  | ●●○ 2/3        |
| Copper, brass, bronze          | Copper-based             | Rm < 850 N/mm <sup>2</sup>   | 9a  | ●○○ 1/3        |
|                                |                          | Rm > 850 N/mm <sup>2</sup>   | 9b  | ●○○ 1/3        |
| Aluminum                       | Aluminum alloys          | Si < 0.5%                    | 10a | ●○○ 1/3        |
|                                |                          | 0.5% < Si < 5%               | 10b | ●○○ 1/3        |
|                                |                          | Si > 5%                      | 10c | ●●○ 2/3        |
| Synthetic materials            | Engineering plastics     | Thermoplastic                | 11a | ●○○ 1/3        |
|                                |                          | Thermoset                    | 11b | ●○○ 1/3        |
| Composite materials            | Reinforced composites    | Glass fiber / GFK            | 12a | ●●○ 2/3        |
|                                |                          | Carbon fiber / KFK           | 12b | ●●○ 2/3        |
| Precious metals                | Gold, platinum, silver   | Gold                         | 13a | ●●○ 2/3        |
|                                |                          | Platinum                     | 13b | ●●○ 2/3        |

TECHNICAL DRAWING



DIMENSIONS

| NOMINAL DIMENSIONS |         |
|--------------------|---------|
| D (0 / -0.01)      | 0.04 mm |
| d (h5)             | 3 mm    |
| L                  | 38 mm   |
| l1                 | 1.2 mm  |
| l3                 | –       |
| d3                 | –       |
| R                  | –       |
| e                  | –       |
| Z                  | 1       |
| Chamfer K          | –       |
| w° collision angle | 11.3°   |



E-SHOP / EZI CUT  
eskenazi.ch/eshop/21800B-0.04-60

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