

FRAISE-D'ÉBAUCHE-MD-E2+-EZI-ALPHA-POUR-MATÉRIAUX-DIFFICILES · ROUGHING-ENDMILL-SC-E2+-EZI-ALPHA-FOR-DIFFICULT-MATERIALS · SCHAFT-SCHRUPPFRÄSER-HM-E2+-EZI-ALPHA-FÜR-HARTE-WERKSTOFFE



SWISS MADE

21132A-20

Version du 21.06.2026



COMPATIBILITÉ MATIÈRE

●●● Excellent (3/3) ●●○ Bon (2/3) ●○○ Possible (1/3) ○○○ Non recommandé

| MATIÈRE | SPÉCIFICATION | GRP | 21132A-20 |
|--|------------------------------|-----|-----------|
| Aciers alliés et non alliés <small>Aciers non alliés</small> | 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 | ●●● |
| Aciers Inox <small>Aciers inoxydables</small> | Rm < 650 N/mm ² | 2a | ○○○ |
| | Rm 650–950 N/mm ² | 2b | ●○○ |
| | Rm > 950 N/mm ² | 2c | ●●○ |
| Aciers trempés <small>Aciers durcis</small> | 44–56 HRC | 3a | ●●● |
| | 57–67 HRC | 3b | ●●○ |
| Matériaux exotiques <small>Alliages spéciaux</small> | < 32 HRC | 4a | ●●● |
| | > 32 HRC | 4b | ●●● |
| Graphite <small>Graphite industriel</small> | | 5 | ○○○ |
| Fontes <small>Fonte grise / nodulaire</small> | < 32 HRC | 6a | ●○○ |
| | > 32 HRC | 6b | ●○○ |
| Titane <small>Alliages titane</small> | Rm < 600 N/mm ² | 7a | ●○○ |
| | 600 < Rm N/mm ² | 7b | ●○○ |
| Alliages Nickel <small>Inconel, Hastelloy</small> | Rm < 1000 N/mm ² | 8a | ●●● |
| | Rm > 1000 N/mm ² | 8b | ●●● |
| Cuivre, laiton, bronze <small>Cuivreux</small> | Rm < 850 N/mm ² | 9a | ○○○ |
| | Rm > 850 N/mm ² | 9b | ○○○ |
| Aluminium <small>Alliages aluminium</small> | Si < 0.5% | 10a | ○○○ |
| | 0.5% < Si < 5% | 10b | ○○○ |
| | Si > 5% | 10c | ○○○ |
| Matières synthétiques <small>Plastiques techniques</small> | Thermoplastique | 11a | ○○○ |
| | Thermodurcissable | 11b | ○○○ |
| Matières composites <small>Composites renforcés</small> | Fibre de verre / GFK | 12a | ○○○ |
| | Fibre de carbone / KFK | 12b | ○○○ |
| Métaux précieux <small>Or, platine, argent</small> | Or | 13a | ○○○ |
| | Platine | 13b | ○○○ |

DESSIN TECHNIQUE



DIMENSIONS

| DIMENSIONS NOMINALES | |
|----------------------|--------|
| D (0 / -0.01) | 20 mm |
| d (h5) | 20 mm |
| L | 104 mm |
| l1 | 30 mm |
| l3 | – |
| d3 | – |
| R | – |
| e | – |
| Z | 4 |
| Chanfrein K | 0.1 |
| w° collision | – |



E-SHOP / EZI CUT
eskenazi.ch/eshop/21132A-20