

FRAISE-HÉMISPHERIQUE Z4 · BALL-NOSE-ENDMILL Z4 · HALBRUND-FRÄSER Z4



22402-20

Version du 07.05.2026

SWISS MADE

E2

OUTIL E2 MATÉRIAU
HAUTE PRÉCISION

$\lambda=35^{\circ}$ - 38°
 $Y=10^{\circ}$

ANGLES DE COUPE ?35-
38° ?10°



OUTIL À RAINURE EN U
HÉMISPHERIQUE



FORET HÉLICOÏDAL À
DOUBLE SENS

l_1
2.2xD

PROFONDEUR 2.2XD
POUR OUTILS



INDICATEUR D'USURE
OUTIL STANDARD

COMPATIBILITÉ MATIÈRE

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

| MATIÈRE | SPÉCIFICATION | GRP | 22402-20 |
|--|------------------------------|-----|----------|
| 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 | 38 mm |
| l3 | – |
| d3 | – |
| R | 10 mm |
| e | – |
| Z | 4 |
| Chanfrein K | – |
| w° collision | – |



E-SHOP / EZI CUT
eskenazi.ch/eshop/22402-20

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