

FRAISE-D'ÉBAUCHE-MD-E2+-EZI-ALPHA-POUR-ACIERS · ROUGHING-ENDMILL-SC-E2+-EZI-ALPHA-FOR-STEEL · SCHAFT-SCHRUPPFRÄSER-HM-E2+-EZI-ALPHA-FÜR- STAHL



SWISS MADE

21138A-12 Version du 07.05.2026

12
Ø D (MM)

83
L (MM)

4
Z

COMPATIBILITÉ MATIÈRE

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

MATIÈRE	SPÉCIFICATION	GRP	21138A-12
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)	12 mm
d (h5)	12 mm
L	83 mm
l1	18 mm
l3	–
d3	–
R	–
e	–
Z	4
Chanfrein K	0.1
w° collision	–



E-SHOP / EZI CUT
eskenazi.ch/eshop/21138A-12

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