

# FORET · 2-FLUTES-DRILL-SC-WITH-THROUGH-COOLANT-E2-5-UF-+-EZI-SMOOTH · ZWEI-LIPPEN-BOHRER-MIT-INNENKÜHLUNG-HM-E25-UF-+-EZI-SMOOTH



SWISS MADE

48380S-3.1

Version 07.05.2026

E2

E2 HIGH PRECISION TOOL MATERIAL

$\lambda = 20^\circ$

20° LAMBDA CUTTING ANGLE



90° RIGHT ANGLE DRILL BIT



STANDARD TOOL WEAR INDICATOR



CENTRAL COOLANT DRILL BIT

## MATERIAL COMPATIBILITY

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

MATERIAL	SPECIFICATION	GRP	48380S-3.1
<b>Alloyed and non-alloyed steels</b> <small>Non-alloyed steels</small>	Rm < 450 N/mm <sup>2</sup>	1a	●●●
	Rm 450–700 N/mm <sup>2</sup>	1b	●●●
	Rm 700–900 N/mm <sup>2</sup>	1c	●●●
	Rm > 1200 N/mm <sup>2</sup>	1d	●●●
<b>Stainless steels</b> <small>Stainless steels</small>	Rm < 650 N/mm <sup>2</sup>	2a	●●●
	Rm 650–950 N/mm <sup>2</sup>	2b	●●●
	Rm > 950 N/mm <sup>2</sup>	2c	●●●
<b>Hardened steels</b> <small>Hardened steels</small>	44–56 HRC	3a	●●●
	57–67 HRC	3b	●○○
<b>Exotic materials</b> <small>Special alloys</small>	< 32 HRC	4a	●●●
	> 32 HRC	4b	●●●
<b>Graphite</b> <small>Industrial graphite</small>		5	●●●
<b>Cast iron</b> <small>Grey / nodular cast iron</small>	< 32 HRC	6a	●●●
	> 32 HRC	6b	●●●
<b>Titanium</b> <small>Titanium alloys</small>	Rm < 600 N/mm <sup>2</sup>	7a	●●●
	600 < Rm N/mm <sup>2</sup>	7b	●●●
<b>Nickel alloys</b> <small>Inconel, Hastelloy</small>	Rm < 1000 N/mm <sup>2</sup>	8a	●●○
	Rm > 1000 N/mm <sup>2</sup>	8b	●●○
<b>Copper, brass, bronze</b> <small>Copper-based</small>	Rm < 850 N/mm <sup>2</sup>	9a	●●●
	Rm > 850 N/mm <sup>2</sup>	9b	●●●
<b>Aluminum</b> <small>Aluminum alloys</small>	Si < 0.5%	10a	●●●
	0.5% < Si < 5%	10b	●●●
	Si > 5%	10c	●●●
<b>Synthetic materials</b> <small>Engineering plastics</small>	Thermoplastic	11a	●●●
	Thermoset	11b	●●●
<b>Composite materials</b> <small>Reinforced composites</small>	Glass fiber / GFK	12a	●●●
	Carbon fiber / KFK	12b	●●●
<b>Precious metals</b> <small>Gold, platinum, silver</small>	Gold	13a	●●●
	Platinum	13b	●●○

## TECHNICAL DRAWING



## DIMENSIONS

NOMINAL DIMENSIONS	
D (0 / -0.01)	3.1 mm
d (h5)	4 mm
L	50 mm
l	22 mm
l3	–
d3	–
R	–
e	–
Z	2
Chamfer K	–
w° collision	1.1°



E-SHOP / EZI CUT  
eskenazi.ch/eshop/483805-3.1