## Garant

Stub drill HSS-E FS, uncoated, Ø DC h8: 3,1mm



## Order data

Order number	113020 3,1		
GTIN	4045197002075		
Item class	11B		

## Description

#### Version:

### Particularly robust and strong due to strengthened core.

Ground flutes, with high concentricity.

Bright finish flutes, nitrided lands.

With point geometry shape C up to 3.9 mm; shape S (special) from 4 mm.

#### Advantage:

Ideal for drilling shallow holes (approx. 2 - 4×D) on NC machines and automatic machines. Recommendation:

Maximum drilling depth:

 $L_2 = L_C - 1.5 \times D_C$ .

### **Technical description**

Nominal Ø $D_c$	3.1 mm		
Number of cutting edges Z	2		
Flute length L <sub>c</sub>	18 mm		
Feed f in steel < 750 N/mm <sup>2</sup>	0.03 mm/rev.		
Tolerance nominal Ø	h8		
Shank Ø Ds	3.1 mm		
Overall length L	49 mm		
Standard	DIN 1897		
recommended maximum drilling depth $L_2$	13.4 mm		
Point angle	135 degrees		

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Shank	Plain shank		
Coating	uncoated		
Tool material	HSS E		
Туре	FS		
Helix angle	38 degrees		
Through-coolant	no		
Colour ring	without		
Type of product	Jobber drill		

# User data

	Suitability	V <sub>c</sub>	ISO code
Alu plastics	suitable	70 m/min	Ν
Aluminium (short chipping)	suitable	45 m/min	Ν
Steel < 500 N/mm <sup>2</sup>	suitable	40 m/min	Р
Steel < 750 N/mm <sup>2</sup>	suitable	30 m/min	Р
GG(G)	suitable	25 m/min	К
Oil	suitable		
wet maximum	suitable		