

**Garant**
**Jobber drill extra long HSS N, uncoated, Ø DC h8: 19R1 mm**

**Order data**

|              |               |
|--------------|---------------|
| Order number | 116760 19R1   |
| GTIN         | 4045197035479 |
| Item class   | 11C           |

**Description**
**Version:**

High concentricity. Core thickness and core taper are standard.

Special surface treatment.

Precision ground point. When drilling deep holes, evacuate chips from the hole frequently, and ensure adequate cooling.

Economy version with standard flutes.

With point geometry shape A.

**Note:**

For suitable reducing adapters for tools with MT shanks see **No. 343000-343530**.

Through-coolant: no

Standard: DIN 1870 R1

Tolerance nominal Ø: h8

Point angle: 118 degrees

Number of cutting edges Z: 2

Flute length  $L_c$ : 245 mm

Overall length L: 370 mm

Morse taper MT size: 2

Feed f in steel < 750 N/mm<sup>2</sup>: 0.2 mm/rev.

**Technical description**

|   |             |
|---|-------------|
| Nominal Ø $D_c$                         | 19 mm       |
| Feed f in steel < 750 N/mm <sup>2</sup> | 0.2 mm/rev. |
| Flute length $L_c$                      | 245 mm      |
| Number of cutting edges Z               | 2           |
| Tolerance nominal Ø                     | h8          |

|                     |               |
|---------------------|---------------|
| Overall length L    | 370 mm        |
| Morse taper MT size | 2             |
| Standard            | DIN 1870 R1   |
| Point angle         | 118 degrees   |
| Coating             | uncoated      |
| Tool material       | HSS           |
| Type                | N             |
| Helix angle         | 16-30 degrees |
| Shank               | Morse taper   |
| Through-coolant     | no            |
| Colour ring         | without       |
| Type of product     | Jobber drill  |