



## TA80300235

**Type:** Centesimal drill without coolant holes for steel

| d1   | d2   | l1 | l2    | l3    |
|------|------|----|-------|-------|
| 2,35 | 3,00 | 50 | 15,00 | 16,50 |

| Coolant holes | Cut   | Point angle | Spiral angle | Cutting edges Z |
|---------------|-------|-------------|--------------|-----------------|
| No            | Right | 130°        | 35°          | 2               |

| Coated | Coating type | Material | Material type | Norm |
|--------|--------------|----------|---------------|------|
| Yes    | ALCRONOS     | MD       | SMG 10        | TUSA |

| Machinable Materials |                                                     |                                                                                                      |                  |                               |
|----------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------|-------------------------------|
| Cod.                 | Material type                                       | Machinability                                                                                        | Cutting speed Vc | Advancement per revolution fn |
|                      |                                                     | <div>Recommended</div> <div>Part.</div> <div>recommended</div> <div>Not</div> <div>recommended</div> | (m/min)          | (mm/rev)                      |
| P01                  | Unalloyed steels up to 800 N/mm2                    |                     | 35 : 65          | 0.023-0.035                   |
| P02                  | Low alloy steels from 800 N/mm2 to 1100 N/mm2       |                     | 28 : 55          | 0.021-0.032                   |
| P03                  | Highly alloyed steels from 1100 N/mm2 to 1400 N/mm2 |                     | 23 : 50          | 0.018-0.03                    |
| M01                  | Ferritic stainless steels                           |                     | 28 : 55          | 0.016-0.028                   |
| M02                  | Martensitic stainless steels                        |                     | 20 : 35          | 0.016-0.028                   |
| M03                  | Martensitic stainless steels - PH                   |                     | 20 : 35          | 0.016-0.028                   |
| M04                  | Austenitic stainless steels                         |                    | 20 : 35          | 0.016-0.028                   |
| K01                  | Gray/lamellar cast iron                             |                   | 35 : 65          | 0.023-0.035                   |
| K02                  | Nodular/nodular cast iron                           |                   | 30 : 55          | 0.020-0.032                   |
| N01                  | Drawn aluminum alloys                               |                   | 45 : 80          | 0.018-0.030                   |
| N02                  | Die-cast aluminum alloys                            |                   | 45 : 70          | 0.020-0.035                   |
| N03                  | Copper                                              |                   | 35 : 65          | 0.018-0.032                   |
| N04                  | Brass - Bronze                                      |                   | 35 : 65          | 0.015-0.025                   |
| N05                  | Lead-free brass                                     |                   | 40 : 70          | 0.018-0.032                   |
| S01                  | Super alloys (Inconel - Hastelloy - Nimonic)        |                   | 23 : 50          | 0.018-0.030                   |
| S02                  | Pure titanium (Grade 2 - Grade 4)                   |                   | 18 : 35          | 0.010-0.018                   |
| S03                  | Titanium alloys (Grade 5)                           |                   | 18 : 35          | 0.010-0.018                   |
| S04                  | Cobalt Chrome Alloys                                |                   | 12 : 20          | 0.010-0.018                   |
| H01                  | Hardened steels up to 55 HRC                        |                   | 12 : 20          | 0.010-0.018                   |

| Machinable Materials |                                                     |                                                                                     |                  |                               |
|----------------------|-----------------------------------------------------|-------------------------------------------------------------------------------------|------------------|-------------------------------|
| Cod.                 | Material type                                       | Machinability                                                                       | Cutting speed Vc | Advancement per revolution fn |
|                      |                                                     | Recommended<br>Part.<br>recommended<br>Not<br>recommended                           | (m/min)          | (mm/rev)                      |
| P01                  | Unalloyed steels up to 800 N/mm2                    |    | 35 : 65          | 0.023-0.035                   |
| P02                  | Low alloy steels from 800 N/mm2 to 1100 N/mm2       |    | 28 : 55          | 0.021-0.032                   |
| P03                  | Highly alloyed steels from 1100 N/mm2 to 1400 N/mm2 |    | 23 : 50          | 0.018-0.03                    |
| M01                  | Ferritic stainless steels                           |    | 28 : 55          | 0.016-0.028                   |
| M02                  | Martensitic stainless steels                        |    | 20 : 35          | 0.016-0.028                   |
| M03                  | Martensitic stainless steels - PH                   |    | 20 : 35          | 0.016-0.028                   |
| M04                  | Austenitic stainless steels                         |   | 20 : 35          | 0.016-0.028                   |
| K01                  | Gray/lamellar cast iron                             |  | 35 : 65          | 0.023-0.035                   |
| K02                  | Nodular/nodular cast iron                           |  | 30 : 55          | 0.020-0.032                   |
| N01                  | Drawn aluminum alloys                               |  | 45 : 80          | 0.018-0.030                   |
| N02                  | Die-cast aluminum alloys                            |  | 45 : 70          | 0.020-0.035                   |
| N03                  | Copper                                              |  | 35 : 65          | 0.018-0.032                   |
| N04                  | Brass - Bronze                                      |  | 35 : 65          | 0.015-0.025                   |
| N05                  | Lead-free brass                                     |  | 40 : 70          | 0.018-0.032                   |
| S01                  | Super alloys (Inconel - Hastelloy - Nimonic)        |  | 23 : 50          | 0.018-0.030                   |
| S02                  | Pure titanium (Grade 2 - Grade 4)                   |  | 18 : 35          | 0.010-0.018                   |
| S03                  | Titanium alloys (Grade 5)                           |  | 18 : 35          | 0.010-0.018                   |
| S04                  | Cobalt Chrome Alloys                                |  | 12 : 20          | 0.010-0.018                   |
| H01                  | Hardened steels up to 55 HRC                        |  | 12 : 20          | 0.010-0.018                   |
| H02                  | Hardened steels from 55 HRC                         |  | -                | -                             |