

## Injection Moulded Material Properties and Application Data

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|--------------------------------|---|-------------|
| <b>Material:</b>               | High speed steel                              |             |
| <b>Grade:</b>                  | <b>AISI - M2, DIN W.No. 1.3343 (S 6-5-2),</b> |             |
| <b>Nominal composition, %:</b> | C   | 0.86 - 0.94 |
|                                | Mn  | < 0.40      |
|                                | P   | 0.030 max   |
|                                | S   | 0.030 max   |
|                                | Si  | < 0.45      |
|                                | Cr  | 3.80 - 4.50 |
|                                | Mo  | 4.70 - 5.20 |
|                                | V   | 1.70 - 2.00 |
|                                | W   | 6.00 - 6.70 |

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| <b>Typical properties</b>      | <b>as sintered</b> | <b>annealed</b> | <b>hardened</b> |
|--------------------------------|--------------------|-----------------|-----------------|
| Soft annealing temperature, °C |                    | 790 – 820       |                 |
| Soft annealed hardness, HV1    |                    | 240 – 300       |                 |
| Hardening temperature, °C      |                    |                 | 1200 – 1240     |
| Annealing temperature, °C      |                    |                 | 540 - 560       |
| Hardness, HRc                  | 58 – 60            |                 | 60 - 64         |

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### Uses, remarks:

Highest-stressed tool steels, reamers, twist drills, milling cutters, segments for circular saws, etc.