



## Material-information-sheet

**Material-number:** 1.3344

**Material:** HS6-5-2-5;

**Steel-group:** Alloyed tool steels, high-speed-steels without Co

**Usage:** High-speed-steels:

Composition like 1.3343, HS6-5-2C, substance V and C is significantly higher. This steel combined highest abrasion resistance, impressed cutting-quality and toughness.

High claimed spiral drills, profile tools, high powered chamfer, turning tools, scratch-tools with an excellent toughness, inner-hexagon-stamp, punching-stamp to build nuts

### Chemical Composition:

	C	Si	Mn	P	S	Cr	Mo	V	W
Minimum	1,15	0,00	0,00	0,00	0,00	3,80	4,70	2,70	6,00
Maximum	1,25	0,45	0,40	0,030	0,030	4,50	5,20	3,20	6,70

### Heat-treatment:

Hot-forming	Soft-annealing (+A)	Expanding	Hardening in oil	Tempering
900- 1000 °C	770 - 820 °C	650 °C	1190 - 1210 °C	550 - 570 °C

### Mechanical-characteristics:

Hardness after glowing	$R_m \leq 900 \text{ MPa}$
Hardness after quenching	~ 64 HRC
Quenching and tempering values:	
Tempered at ~ 50 °C	~ 64 HRC
Tempered at ~ 300 °C	~ 61 HRC
Tempered at ~ 350 °C	~ 61 HRC
Tempered at ~ 400 °C	~ 61 HRC
Tempered at ~ 450 °C	~ 62 HRC
Tempered at ~ 500 °C	~ 65 HRC
Tempered at ~ 600 °C	~ 67 HRC