

Material-information-sheet

Material-number: 1.3343

Material: HS6-5-2C;

Steel-group: Alloyed tool steels, high-speed-steels with Co

Usage: High-speed-steels:

Subland twist drill, hole cutter, reamer, spiral drill, chamfer, screw tap, pricker rotating blade, planing tool, lining segments for circular saws and threading dies, impact-tools, cold extruded temples, matrices, fine - cutting tools, plastics moulding with high wearing resistance

Chemical composition:

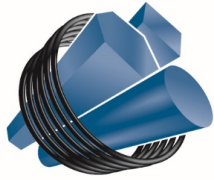
	C	Si	Mn	P	S	Cr	Mo	V	W
Minimum	0,86	0,00	0,00	0,00	0,00	3,80	4,720	1,70	5,90
Maximum	0,94	0,45	0,40	0,030	0,030	4,50	5,20	2,10	6,70

Heat-treatment:

	Soft-annealing (A+)	Hardening in oil	Tempering
Hot forming			
900 - 1100 °C	650 °C	1200 - 1200 °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	~ 61,5 HRC
Tempered at ~ 350 °C	~ 62 HRC
Tempered at ~ 400 °C	~ 62 HRC
Tempered at ~ 450 °C	~ 63 HRC
Tempered at ~ 500 °C	~ 65 HRC
Tempered at ~ 600 °C	~ 63 HRC



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Stock:

Bars:

- Bars-length 3 m for +A+C+PL:
- Tolerance data EN 10278
- Technical delivery conditions EN 10277, surface quality class 2

Execution	Cross-section in mm
	Round
Tolerance	h9
+A+C+PL	6,0 – 12,0
+A+SH (roughly processed)	13 - 38