

1.3343 HS6-5-2C

Material Designation

1.3343 DIN EN ISO
 HS 6-5-2C DIN EN ISO
 ~M2 ASTM

Standards

DIN EN ISO 4957
 ASTM A 600

Typical Composition Mass-%

C	Si	Mn	W	Mo	V	Cr
0,9	0,3	0,3	6,2	4,9	1,8	3,9

Properties

HS6-5-2C is a heat resistant high speed steel standard grade with good cutting performance. The steel combines high abrasion and wear resistance with good toughness.

Delivery Condition

- ✘ annealed (+A) max. 269 HBW

Application Area

Highly stressed tools requiring a good combination of toughness and abrasion resistance.

Typical Applications

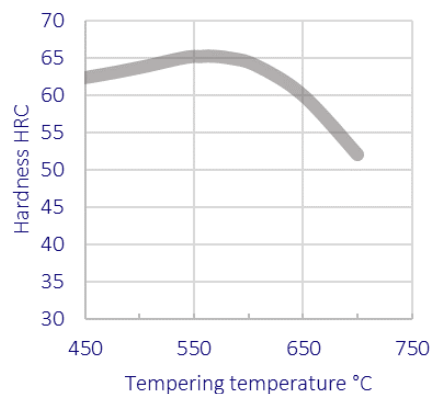
- ✘ Cutting and planing tools, drills
- ✘ Ejector pins
- ✘ Extrusion tools and dies
- ✘ Stamping tools

Hot Forming Guideline values

Temperature [°C]	Cooling
1100 - 900	Furnace or in thermoinsulating material

Heat Treatment Guideline values

	Temperature [°C] / Duration	Cooling medium
Stress relieving (+SR)	600 - 650	Furnace
Annealing (+A)	770 - 860	Furnace
Quenching and tempering (+QT)	1180 - 1230 (Hardening) <small>Three-stage preheating at 450 / 850 / 1050 °C recommended</small>	Warm bath, oil, N ₂ , air
	530 - 560 / 1h (Tempering) <small>Acc. to graph below, double or triple tempering recommended</small>	Air



Tempering graph, hardening temperature 1220 °C, double tempered, 1h/air, sample 30x50mm.

Quality

- ISO 9001
- ISO 14001
- ISO 50001
- Approvals acc. to standards like ABS, BV, DNV ...
- Customer specific approval certificates

Innovation

- Fully automated phased-array-ultrasonic testing up to dia. 1000 mm
- CO₂-reduction by innovative heat treatment solutions

Flexibility

- Product range from fine wire to forging
- Directly from stock close at hand

Individuality

- Dimensions
- Tolerances
- Surface qualities
- Delivery conditions

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