

Material Data Sheet HS 6-5-2C 1.3343

High- speed steel for universal application:

- High toughness
- High efficiency
- Universal application
(ejector pin, nozzle pin, valve pin, drill blank)

// Chemical Analysis %

C	Si	Mn	P	S	Cr	Mo	V	W
0,8	<=.	<=	<=.	<=.	3,8	4,7	1,7	5,9
0,94	0,45	0,40	0,030	0,030	4,5	5,2	2,0	6,7

See also EN ISO 4957

Density: 8,2 kg/dm³

E- Modulus: at 20°C 217 x 10³ N/mm²

Thermal Expansion: 20° C - 100° C = 11,5 x 10⁻⁶K⁻¹
(benchmark)
20° C - 200° C = 11,7 x 10⁻⁶K⁻¹
20° C - 300° C = 12,2 x 10⁻⁶K⁻¹
20° C - 400° C = 12,4 x 10⁻⁶K⁻¹
20° C - 500° C = 12,7 x 10⁻⁶K⁻¹
20° C - 600° C = 13,0 x 10⁻⁶K⁻¹
20° C - 700° C = 12,9 x 10⁻⁶K⁻¹

Roundness: ½ Diameter tolerance

Surface: Grinded, polished surface
finish Ra <= 0,30 µm

Straightness: 0,05 mm / 150 mm

Hardened: Hardened through and
temper to 62 – 66 HRC

Dimensions: Ø 3 mm – Ø 20 mm

Length: Automatic hardening machine
max. 3.500 mm
Pull through furnace
max. 4.500 mm

// Standard Diameters

Standard Ø (mm)	Tolerance (µm)		* Production Length (mm)
	h 6	h 9	
4,3			4.000
4,45	0 - 8	0 - 30	
4,6			
7,3			3.000
8,3	0 - 9	0 - 36	
9,8			
11,3			
12,3	0 - 11	0 - 43	
13,3			

Length tolerance ± 100 mm.

Testing:

100% diameter check with laser. 100% Eddy current test Fa. Förster Magnetest D3.623. 100% Crack detection Fa. Förster Circograph with rotating sensor. Demagnetization before and after testing. Mechanical separation for good and faulty pieces.

Specials:

Other hardness depths and tolerances are available. Please contact us for detailed information, dimensions and minimum order quantities.

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