

1.0570

Material no.: 1.0570

HASCO colour code: black / brown

Abbreviated DIN name: S 355 J2 G3

Chemical analysis (%):

C	Si	Mn			
0,22	0,55	1,6			

Hardness when supplied: max. 180 HB (~ 625 N/mm²)

Characteristics

Material properties:

Very good machinability with good weldability and dimensional stability.

Uses:

General machine components, base plates, mould frames

Physical properties

Thermal expansion coefficient
(10⁻⁶·m)/(m·K)

20	200	300	400	500	600	700	°C
11,1	12,2	12,9	13,5	13,9			

Thermal conductivity
W/(m·K)

20	350	700	°C
54			

Remarks

Polishing: Not usual.

Graining: Not usual.

Nitriding: Not usual.

Hardening: At 860-890°C
The most suitable heat treatment for the relevant work piece should be fixed by the hardening shop.
The specified hardness should be prescribed by the hardening shop and checked on delivery.

Soft annealing: 650-700°C, 4-6 h

Stress-relief annealing: To eliminate residual stress after coarse machining at 550-580°C, 4 h with slow cooling.

Normal working hardness: <20 HRC

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