

Material: 1.0570 - Mild Steel S 355 WA J2



Material No.: 1.0570

Abbreviated DIN Name: S 355 J2 G3

Chemical Analysis (%)	C	Si	Mn
	0,22	0,55	1,6

Hardness: 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)

100	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 workpiece should be suggested by the heat treatment company.

Soft annealing: 650°C - 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 work hardness: <20 HRC

Dimensions Available: W x L : Max 1200 x 2500 mm

H - : 25, 30, 35, 40, 45, 50, 55, 60, 65, 70, 75, 80, 90, 100, 110, 130