

## S275JR All

### General Information

S275JR belongs to the group of none alloyed structural steels

### Similar designations

St 44-2, SS1414, SS 141412-00

### Chemical composition

Variant	Cast		C%	Si%	Mn %	P%	S%	Cu %	N%
SB1412	CC	Min	-	-	-	-	-	-	-
		Max	0.21	0.40	1.50	0.040	0.040	0.55	0.0120

## Mechanical Properties

Variant	Condition	Format	Dimension [mm]	Yield strength min [MPa]	Tensile strength [MPa]	Elongation A <sub>5</sub> [%]
SB1412	+AR	Flat bar	< 16	275*	410-560	22
		Flat bar	17 < 40	265*	410-560	22
		Flat bar	41 < 63	255*	410-560	21
		Flat bar	64 < 80	245*	410-560	20

*R<sub>p0.2</sub> \* R<sub>eh</sub> \*\* R<sub>eI</sub>*

## Transformation temperatures

	Temperature °C
MS	485
AC1	725
AC3	863

## Other properties (typical values)

Youngs module (GPa)	Poisson´s ratio (-)	Shear module (GPa)	Density (kg/m3)
210	0.3	80	7800
Average CTE 20-300°C (µm/m°K)	Specific heat capacity 50/100°C (J/kg°K)	Thermal conductivity Ambient temperature (W/m°K)	Electrical resistivity Ambient temperature (µΩm)
12	460 - 480	40 - 45	0.20 - 0.25

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