

STEEL GRADE

Last revised: Fri, 31 Jan 2025 15:26:05 GMT

S355JR

All

General Information

S355 is a structural micro-alloyed grade used for a great variety of applications. It is standardized with a specified impact strength of 27 J at a few different temperatures, but EN10027 gives guidelines how to extend the designation.

Similar designations

S355K2 - 15Mn4, S355JR - C16, S355J2 - C16

Chemical composition

Variant	Cast	Weldability		C %	Si %	Mn %	P %	S %	Cu %
S355JR EN10025-2:2019	Std	CEV 0.52 _{max}	Min	-	-	-	-	-	-
		Pcm 0.35 _{max}	Max	0.24	0.55	1.60	0.035	0.035	0.55

Transformation temperatures

	Temperature °C
MS	540
AC1	720
AC3	790

Other properties (typical values)

Youngs module (GPa)	Poisson´s ratio (-)	Shear module (GPa)	Density (kg/m ³)
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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