

# Steel S235JR

UNI Fe360 B / DIN St 37-2 / 1.0038 / AFNOR E 24-2 / AISI A 252 / UNE AE 235 B

Known for its toughness and versatility, it's an excellent choice for your custom CNC machining projects. S235JR steel is suitable for a wide range of applications, perfect for manufacturing complex components with tight tolerances.



## Material properties

<b>Density</b>		<b>7,8</b>	g/cm <sup>3</sup>
<b>Tensile strength</b>	ISO 6892	<b>450</b>	MPa
<b>Elongation at break</b>	ISO 6892	<b>10</b>	%
<b>Yield strength</b>	ISO 6892	<b>235</b>	MPa
<b>Elastic modulus</b>	ISO 6892	<b>200</b>	GPa
<b>Resilience</b>	ISO 148	<b>27</b>	kJ/m <sup>2</sup>
<b>Hardness</b>	ISO 6508	<b>130</b>	HB
<b>Melting temperature</b>		<b>1500</b>	°C
<b>Thermal conductivity (20°C)</b>		<b>52</b>	W/mK
<b>Electrical resistivity</b>		<b>0,20-0,25</b>	Ωmm <sup>2</sup> /m

### Main alloy elements

Iron - Manganese

### Maximum dimensions

110x110x500 mm (4.3x4.3x19.7 in)

### Tolerances

ISO 2768-1 fine (f) or medium (m) class

### Applications

Building construction, automotive, machine parts, urban infrastructure, bridge structural components.

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