

Steel S355J2

UNI Fe510 / DIN St 52-3N / 1.0570 / AFNOR E36-3 / AISI 1024 / UNE AE355D

Discover the excellent mechanical strength and ease of processing of S355J2 Steel: the ideal material for structural applications, heavy machinery and extreme environmental conditions



Material properties

Density		7,85	g/cm ³
Tensile strength	ISO 6892	510	MPa
Elongation at break	ISO 6892	21	%
Yield strength	ISO 6892	355	MPa
Elastic modulus	ISO 6892	210	GPa
Resilience	ISO 148	27	kJ/m ²
Hardness	ISO 6508	190	HB
Melting temperature		1460	°C
Thermal conductivity (20°C)		45	W/mK
Electrical resistivity		0,20-0,25	Ωmm ² /m

Main alloy elements

Silicon - Manganese

Maximum dimensions

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

Tolerances

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

Applications

Heavy vehicles, Offshore equipment, Industrial machinery, Agricultural machinery

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