

EN10025 S355JR low alloy steel

Key words :

S355JR steel plate, under EN10025(93) standard S355JR steel plate, under EN10025(93) standard, we can regard S355JR steel plate as low alloy steel

S355JR steel plate is one mainly of low alloy steel, S355JR steel plate is alloy steel under the EN standard which is equal to DIN17100:St52-3, JIS:SS490/SM490A, BS:50B and UNI7070:Fe510B

Equivalent grade :

S355JR steel plate/sheet is in EN10025 standard. It's grade Number is 1.0045. The equal material of S355JR is: EN10025:1990 FE 510 B, DIN17100 ST52-3, NFA 35-501 E36-2, JIS SS490/SM490A - ASTM A572GR50, UNI7070 FE 510 B .

Comparison of steel grades

	EN10025:1990	FE 510 B
	DIN17100	ST52-3
S355JR	ASTM	A572GR50
EN 10025-2 Number: 1.0045	JIS	SS490/SM490A
	NFA 35-501	E36-2
	BS1449	50B
	UNI7070	FE 510 B

EN10025 S355JR steel Chemical Composition

Main chemical composition in **EN10025 S355JR steel** : Silicium max 0.55 Manganese max 1.60, Phosphorus max 0.045, Sulphur max 0.045. More detailed information, please refer to the flowing table:

Chemical elements	C≤ 16mm max	C>16mm max	Si max	Mn max	P max.	S max.
%, by mass	0.24	0.24	0.55	1.60	0.045	0.045

EN10025 S355JR steel Mechanical Properties

EN10025 S355JR steel plate/sheet for low alloy steels, This kind of steel has very wide use. Because of the low Carbon content and without alloy element, carbon structural steel has the proper tensile strength, good toughness, plasticity, processing property. More detailed information about EN10025 S355JR steel Mechanical Properties , please refer to the following table:

thickness	Yield Strength ReH [N/mm ²] transv. min.	Tensile Strength Rm [N/mm ²] transv.	Fracture Elongation [%] transv. min.	Notch Impact Energy 1) Ch V complete sample longitud. min [J]
t ≤ 16mm	355			
t > 16mm	345			
t < 3mm		510-680		20 degree
t ≥ 3mm		490-630		27J
Up to 1.5mm			13	
1.51-2.00mm			14	

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2.01-2.50mm	15
2.51-2.99mm	16
≥ 3mm	20

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