



**Structural steel plate S355J0** is carbon\_manganese steels with a guaranteed minimum yield strength and tensile strength, and

satisfactory ductility. Without any special rolling or heat treatment for **S355J0 steel**, The abbreviated designation of this delivery condition shall be AR (As rolled).

Now we list the steel chemical composition and property as belows, customers should be focused on the values, else note for **long steel plate**, the max S content can be increased for improved machinability by 0.010% by agreement if the steel is treated to modify the sulphide morphology.

#### Comparison of steel grades

S355J0	EN10025:1990	FE 510 C
DIN EN 10025-2 Number:	DIN17100	ST52-3U
1.0553	NFA 35-501	E36-3
	BS1449	50C
	UNI7070	FE 510 C

#### S355J0 steel plate Chemical analysis -% by mass\*

Chemical elements	C ≤ 16mm	C > 16mm	Si	Mn	P	S
	max	max	max	max	max.	max.
%, by mass	0.20	0.20	0.55	1.60	0.040	0.040

#### S355J0 steel sheet Mechanical properties

thickness	Yield Strength $R_{eH}$ [N/mm <sup>2</sup> ]	Tensile Strength $R_m$ [N/mm <sup>2</sup> ]	Fracture Elongation[%] transv. min.	Notch Impact Energy $1)Ch V$ complete sample longitud. min [J]
		transv. min.		
t ≤ 16mm	355			
t > 16mm	345			
t < 3mm		510-680		
t ≥ 3mm		490-630		
Up to 1.5mm			13	0 degree
1.51-2.00m			14	27J
m			15	
2.01-2.50m			16	
m			20	
2.51-2.99m				

BEBON international — We are specialized in hot rolled steel plate/coil.

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m

 $\geq 3\text{mm}$ 

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