

### Carbon and low alloy steel EN10025 S355J2G3 steel plate

S355J2G3 steel plate, under EN10025(93) standard S355J2G3 steel plate, under EN10025(93) standard, we can regard S355J2G3 steel plate as Carbon and low alloy steel  
 S355J2G3 steel plate is one mainly of Carbon and low alloy steel, S355J2G3 steel steel applied in offshore structures, shipbuilding, power plants, cement plants, freight cars, transmission towers, dump trucks, cranes, trailers, bull dozers, excavators, forestry machines, railway wagons, dolphins, penstocks, pipes, highway bridges, building structures, fans, pumps, lifting equipments, port equipments and etc

S355J2G3 EN 10250-2:1999, Number: 1.0570	Comparison of steel grades	
	JUS	-
	DIN	St52-3N
	BS	50D
	GOST	-
	AISI	-
	UNI	-
	NF	-

#### Chemical analysis -% by mass

Chemical elements	C** max.	Si max.	Mn max.	P max.	S max.	Cr max.	Mo max.	Ni max.	Cr+Mo+Ni max.	Al min.
%, by mass	0,22	0,55	1,60	0,035	0,035	0,30	0,08	0,30	0,48	0,020
Permissible deviation	+ 0,02	+ 0,03	+ 0,04	+0,05	+0,005	+ 0,05	+ 0,03	+ 0,05		- 0,005

At the option of the manufacturer the elements aluminium, titanium, vanadium and niobium may be added singly or in combination for grain size control purposes. Elements not quoted in table shall not be added to the steel without the agreement of the purchaser, except for the purpose of finishing the heat. For forging with an equivalent diameter or thickness >100mm the carbon content shall be agreed between purchaser and supplier. Mechanical properties in the normalized and normalized and tempered conditions

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Diameter in mm	tR ≤ 100mm	100< tR ≤250mm	250< tR ≤500mm	500< tR ≤1000mm
Re min (N/mm2)	315	275	265	-
Rm min (N/mm2)	490	450	450	-
A % min.	l-longitudinal	20	18	18
	tr -transverse	-	12	12
KV min (J)	l-longitudinal	35	30	27
	tr -transverse	-	20	15

1N/mm2=1MPa Heat treatment conditions

Quenching Temperature, 0C	Cooling medium	Tempering Temperature, 0C	Normalizing temperature, 0C
-	-	-	890 to 950

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