

CHEMICAL COMPOSITION							
Steel Grade	Old Grade	C(%)	Si(%)	Mn(%)	P(%) \leq	S(%) \leq	
SS540	SS55	-	-	1.6	0.04	0.04	
MECHANICAL PROPERTIES							
Steel Grade	Yield \geq /MPa d \leq 16mm	Yield \geq /MPa d=16~40mm	Yield \geq /MPa d>40mm	Tensile Strength $\sigma_b \geq$ /Mpa	Extensibility \geq d/mm	Extensibility \geq δ (%):	Cold Bending(180°):
SS540	400	390	-	540	Plate、Band、Flat : \leq 5	16	r=2.0a
SS540	400	390	-	540	Plate、Band、Flat : 5 ~ 16	13	r=2.0a
SS540	400	390	-	540	Plate、Band、Flat : 16 ~ 40	17	r=2.0a
SS540	400	390	-	540	Round Bar、Angle : \leq 25	13	r=2.0a
SS540	400	390	-	540	Round Bar、Angle : > 25	17	r=2.0a
Remark:							
1, Thickness or diameter of steel > 100mm, yield strength: SS330: 165MPa, SS400: 206MPa, SS490: 245MPa.							
2, For steel with a thickness of more than 90 mm, for every increase in thickness by 25 mm, the elongation of the steel is less than 1, but only 3% at most.							
3, D-thickness or diameter, r-inner radius, a-thickness or diameter.							

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