

UNE36011 C35K steel plate high carbon steel

C35K steel plate, UNE36011 C35K steel plate, under UNE36011 standard, we can regard C35K steel plate as high carbon steel.

C35K steel plate is one mainly of high carbon steel, UNE36011 C35K steel plate is 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. Mechanical properties in the normalized and normalized and tempered conditions.

C35K UNE 36011 Number:1.0501	Comparision of steel grades	
	JIS G 4051	S 35 C
	DIN 17200	C 35
	NFA 33-101	AF55-C 35
	UNI 7846	C 35
	BS 970	070 M 36
	EN 10083-2	C 35
	SAE J 403-AISI	1035

Chemical Composition of C35K

Grade	C(%)min-max	Si(%)min-max	Mn(%)min-max	P(%)max	S(%)max	Cr(%)min-max
C35	0.32-0.39	0.15-0.35	0.50-0.80	0.025	0.025	0.20-0.40

Mechanical Properties of C35K

Grade	Condition	Yield Strength R ^o (Mpa)	Tensile Strength R _m (Mpa)	Elongation A5(%)	Hardness HRC	Quenching Temperature (°C)	Bendability	Nominal Thickness,t 1.95mm≤t≤10.0 mm	
								Rolled	Annealed
C35	Rolled	440	700	18	53	840	Min.recommended Bending radius (≤90°)	2.0	1.0×t
	Annealed Water-quenched Oil quenched	310	480 1845 1690	30	50	880		×t	

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