

**UNE36011 C55K steel plate high carbon steel**

C55K steel plate, UNE36011 C55K steel plate, under UNE36011 standard, we can regard C55K steel plate as high carbon steel.

C55K steel plate is one mainly of high carbon steel, UNE36011 C55K steel plate Compared of steel grades JUS Č.1630, DIN C55, BS 070M55, GOST55 and AISI 1055 steel.

C55K UNE 36011 Number:1.0535	Comparision of steel grades	
	JIS G 4051	S 55 C
	DIN 17200	C 55
	NFA 33-101	AF70-C 55
	UNI 7846	C 55
	BS 970	070 M 55
	EN 10083-2	C 55
	SAE J 403-AISI	1055

**Chemical Composition of C55K steel**

Grade	C(%)min-max	Si(%)min-max	Mn(%)min-max	P(%)max	S(%)max	Cr(%)min-max
C55K	0.52-0.60	0.15-0.35	0.60-0.90	0.025	0.025	0.20-0.40

**Mechanical Properties of C55K steel**

Grade	Condition	Yield Strength R <sup>e</sup> (Mpa)	Tensile Strength R <sub>m</sub> (Mpa)	Elongation A5(%)	Hardness HRC	Quenching Temperature (°C)	Bendability	Nominal Thickness,t 1.95mm≤t≤10.0mm	
								Rolled	Annealed
C55K	Rolled	500	825	18	61	805	Min.recommended Bending radius (≤90°)	3.0×t	1.0×t
	Annealed	350	550	30	57	845			
	Water-quenched		2510						
	Oil quenched		2120						

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E-mail:bb@bebonchina.com

Tel:0086-371-86151527

MSN:bebonchina@hotmail.com

Fax: 0086-371-86011881

Oficina Dir: 2801 B# International enterprise center Zhengzhou city in China.

Skype: bebonchina

[www.bebonchina.com](http://www.bebonchina.com)
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