

EN 10083 C55 steel plate high carbon steel

C55 steel plate, EN 10083 C55 steel plate, under EN 10083 standard, we can regard C55 steel plate as high carbon steel.

C55 steel plate is one mainly of high carbon steel, EN 10083 C55 steel plate is a medium carbon steel which is used when greater strength and hardness is desired than in the "as rolled" condition. Extreme size accuracy, straightness and concentricity combined to minimize wear in high speed applications. Turned, ground and polished. The C55 steel is applied in quenched and subsequently tempered steel for less exacting springs, shafts, bushings, crankshafts, etc.

C55 EN 10083-2 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
	UNE 36011	C 55 k
	SAE J 403-AISI	1055

Chemical Composition of C55

Grade	C(%)min-max	Si(%)min-max	Mn(%)min-max	P(%)max	S(%)max	Cr(%)min-max
C55	0.52-0.60	0.15-0.35	0.60-0.90	0.025	0.025	0.20-0.40

Mechanical Properties of C55

Grade	Condition	Yield Strength R ^o (Mpa)	Tensile Strength Rm (Mpa)	Elongation A5(%)	Hardness HRC	Quenching Temperature (°C)	Bendability	Nominal Thickness,t 1.95mm≤t≤10.0 mm	
								Rolled	Annealed
C55	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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