

NFA 33-101 AF70-C55 steel plate high carbon steel

AF70-C55 steel plate, NFA 33-101 AF70-C55 steel plate, under NFA 33-101 standard, we can regard AF70-C55 steel plate as high carbon steel.

AF70-C55 steel plate is one mainly of high carbon steel, NFA 33-101 AF70-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 AF70-C55 steel is applied in quenched and subsequently tempered steel for less exacting springs, shafts, bushings, crankshafts, etc.

AF70-C55 NFA 33-101 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
AF70-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 R _m (Mpa)	Elongation A5(%)	Hardness HRC	Quenching Temperature (°C)	Bendability	Nominal Thickness,t 1.95mm≤t≤10.0mm	
								Rolled	Annealed
AF70-C55	Rolled Annealed Water-quenched	500 350	825 550 2510 2120	18 30	61 57	805 845	Min.recommended Bending radius	3.0 ×t	1.0×t

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	Oil quenched						($\leq 90^\circ$)		
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