

BS 970 070 M 55 steel plate high carbon steel

070 M 55 steel plate, BS 970 070 M 55 steel plate, under BS 970 standard, we can regard 070M55 steel plate as high carbon steel.

070M55 steel plate is one mainly of high carbon steel,BS 970 070 M 55 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.The070M55 steel is applied in quenched and subsequently tempered steel for less exacting springs,shafts,bushings,crankshafts,etc.

070M55 BS 970 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
070M55	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 ⁰ (Mpa)	Tensile Strength Rm (Mpa)	Elongation A5(%)	Hardness HRC	Quenchi ng Temperature (°C)	Benda-bility	Nominal Thickness,t 1.95mm≤t≤10.0 mm	
								Roll ed	Anneale d
070 M55	Rolled Annealed Water- quenched Oil	500 350	825 550 2510 2120	18 30	61 57	805 845	Min.reco- mmended Bending radius (≤90°)	3.0 ×t	1.0×t

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