


TECHNICAL GUIDE

655M13 / EN36B

Steel Description


655M13 / EN36B is a 3% Nickel Chromium Case Hardening Steel that is supplied in the bright drawn and hot rolled condition. After carburising, 655M13 / EN36B gives a hard case with a strong core, whilst retaining a remarkable degree of toughness and resistance to shock. In addition and due to the nickel & chrome content, it offers a high tensile strength that is useful in numerous applications, including for the manufacture of crankshafts, gears, steering worms and track rod pins.

BS970: 1955	BS970: 1991	COLOUR CODE	DESCRIPTION
EN36B	655M13		Bright / black 3% nickel chromium case hardening steel

CHEMICAL ANALYSIS	
Car	0.10 / 0.16
Sil	0.10 / 0.40
Mang	0.35 / 0.60
Chr	0.70 / 1.00
Nick	3.00 / 3.75

INTERNATIONAL SPECIFICATION COMPARISON	
BRITISH BS 970:1991	655M13
BRITISH BS 970:1955	EN36B
GERMAN DIN	
FRENCH AFNOR	
SWEDISH SS	
AMERICAN SAE	3415
EUROPEAN STEEL NO.	
EUROPEAN STEEL NAME	15NiCr13
EUROPEAN STANDARD	EN10277-4

QUICK VIEW SYSTEM	
MACHINEABILITY	65
WELDABILITY	Satisfactory
HARDENABILITY	High strength case hardening
SELECTION GUIDE AND USAGE EXAMPLES	Nickel & chrome permits deep hardening & a very tough core after hardening. Heavy duty gears & camshafts

SIZE RANGE SUMMARY			
	Rounds	IMP	1/2" - 3" dia
		MM	80mm - 260mm dia

SEE STOCK RANGE FOR SPECIFIC SIZES.