

TECHNICAL GUIDE

817M40T/EN24T

BS970: 1955	BS970: 1991	COLOUR CODE	DESCRIPTION
EN24T	817M40T		Bright / black 1.1/2% nickel chromium molybdenum steel

CHEMICAL ANALYSIS	
Car	0.36 / .044
Sil	0.10 / 0.40
Mang	0.45 / 0.70
Phos	0.035 max
Sul	0.040 max
Chr	1.00 / 1.40
Moly	0.20 / 0.35
Nick	1.30 / 1.70

MECHANICAL PROPERTIES	
Tensile Strength N/MM2 Min Rm	850 / 1000
Yield Stress N/MM2 Min Rm	700
Elongation A Min % on 5.65vSO	9
Izod Min	54
Kcv Min	-
Proof Stress 0.2% N/MM2 Min	680
Brinell Hardness	248 / 302

INTERNATIONAL SPECIFICATION COMPARISON	
BRITISH BS 970:1991	817M40T
BRITISH BS 970:1955	EN24T
GERMAN DIN	34NiCrMo6
FRENCH AFNOR	35NCD6
SWEDISH SS	2541
AMERICAN SAE	4340
EUROPEAN STEEL NO.	1.6582
EUROPEAN STEEL NAME	34CrNiMo6
EUROPEAN STANDARD	EN10277-5

QUICK VIEW SYSTEM	
MACHINEABILITY	40
WELDABILITY	Pre / post heat precaution required
HARDENABILITY	High strength up to 100mm dia
SELECTION GUIDE AND USAGE EXAMPLES	Popular direct hardening steel with good tensile, ductility, shock and wear resistance properties

SIZES														
Size (ins. dia)	3/8	1/2	5/8	3/4	7/8	1	1.1/8	1.1/4	1.3/8	1.1/2	1.5/8	1.3/4	1.7/8	2
	2.1/4	2.1/2	2.3/4	3										

Size (mm. dia)	16.00	20.00	25.00	30.00	40.00	50.00	60.00	65.00	80.00	90.00	95.00	100.00	105.00	110.00
	120.00	130.00	140.00	150.00	160.00	170.00	180.00	190.00	200.00	205.00	220.00	240.00	250.00	260.00
	305.00													