


TECHNICAL GUIDE

605M36T/ENI6T

BS970: 1955	BS970: 1991	COLOUR CODE	DESCRIPTION
ENI6T	605M36T		Bright / black manganese molybdenum steel

CHEMICAL ANALYSIS	
Car	0.32 / 0.40
Sil	0.10 / 0.40
Mang	1.30 / 1.70
Phos	0.035 max
Sul	0.040 max
Moly	0.22 / 0.30

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	605M36T
BRITISH BS 970:1955	ENI6T
GERMAN DIN	
FRENCH AFNOR	
SWEDISH SS	
AMERICAN SAE	
EUROPEAN STEEL NO.	
EUROPEAN STEEL NAME	
EUROPEAN STANDARD	

QUICK VIEW SYSTEM	
MACHINEABILITY	45
WELDABILITY	Pre / post heat precaution required
HARDENABILITY	High strength up to 39mm dia
SELECTION GUIDE AND USAGE EXAMPLES	Good mechanical properties, ductility and shock resistance. crankshafts, conrods and shafts

SIZES														
Size (ins. dia)	3/8	1/2	0.556	3/4	1	1.7/8	2	2.1/4	2.3/8	2.1/2	2.3/4	3		
Size (mm. dia)	19.00	85.00	90.00	100.00	115.00	160.00	165.00							
Size (ins. A/F)	0.750													
Size (mm A/F)	50													