

709M40T/EN19T

BS970: 1955	BS970: 1991	COLOUR CODE	DESCRIPTION
EN19T	709M40T		Bright / black 1% chromium molybdenum steel

CHEMICAL ANALYSIS					
Car	0.36 / 0.44				
Sil	0.10 / 0.40				
Mang	0.70 /1.00				
Phos	0.035 max				
Sul	0.040 max				
Chr	0.90 / 1.20				
Moly	0.25 / 0.35				

MECHANICAL PROPERTIES							
Tensile Strength N/MM2 Min Rm	850 / 1000						
Yield Stress N/MM2 Min Rm	700						
Elongation A Min % on 5.65√SO	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	709M40T					
BRITISH BS 970:1955	EN19T					
GERMAN DIN	42CrMo4					
FRENCH AFNOR	42CD4					
SWEDISH SS	2244					
AMERICAN SAE	4140					
EUROPEAN STEEL NO.	1.7225					
EUROPEAN STEEL NAME	42CrMo4					
EUROPEAN STANDARD	EN10277-5					

QUICK VIEW SYSTEM							
MACHINEABILITY	40						
WELDABILITY	Pre / post head precaution required						
HARDENABILITY	High strength up to 60mm dia						
SELECTION GUIDE AND USAGE EXAMPLES	Good tensile, ductility and shock resistance. Can be induction hardened to give resistance to wear						

SIZES														
Size	1/2	5/8	3/4	7/8	I	1.1/8	1.1/4	1.3/8	1.1/2	1.5/8	1.3/4	2	2.1/4	2.1/2
Size (ins. dia)	3													
Size (mm. dia)	10.00	45.00	50.00	60.00										