

722M24T / EN40BT

Steel Description

722M24T / EN40BT is a 3% Chromium Molybdenum Nitriding Steel which is usually supplied in the hardened and Tempered T condition as bright peeled or hot rolled. 722M24T / EN40BT offers high wear resistance together with good toughness and ductility and, the nitriding process produces a scale free surface with minimal distortion, suitable for the manufacture of bolts, drills, gears, guides, shafts & spindles.

BS970: 1955		BS970: 1991	COLOUR CODE	DESCRIPTION	
EN40BT		722M24T		Black 3% chromium molybdenum nitriding steel	
CHEMICAL ANALYSIS		MECHANICAL PROPERTIES		INTERNATIONAL SPECIFICATION COMPARISON	
Car	0.20 / 0.28	Tensile Strength N/MM2 Min R	850 / 1000	BRITISH BS 970:1991 722M24T	
Sil	0.10 / 0.40	Yield Stress N/MM2 Min Rm	700	BRITISH BS 970:1955 EN40BT	
Mang	0.45 / 0.70	Elongation A Min % on 5.65√S0	D 9	GERMAN DIN	
Phos	0.035 max	Izod Min	54	FRENCH AFNOR	
Sul	0.040 max	Kcv Min	-	SWEDISH SS	
Chr	3.00 / 3.50	Proof Stress 0.2% N/MM2 Min	680	AMERICAN SAE	
Moly	0.46 / 0.65	Brinell Hardness	248 / 302	EUROPEAN STEEL NO.	
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SIZE RANGE SUMMARY						
	Rounds	ММ	25mm - 200mm dia			

SEE STOCK RANGE FOR SPECIFIC SIZES.

QUICK VIEW SYSTEM				
MACHINEABILITY	35			
WELDABILITY	Not recommended			
HARDENABILITY	Medium strength nitriding			
SELECTION GUIDE AND USAGE EXAMPLES	After hardening produces very hard resistant case & core strength 55/65 t/sq". Shackle pins & ball joints			

EUROPEAN STANDARD

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