

230M07 / ENIA Freecutting

Steel Description

230M07 / ENIA FREECUTTING is a very popular free machining low carbon steel that is supplied in either the Bright Drawn or Turned Bar condition. It is a highly machineable sulphurised material with consistent chemical properties, resulting in easy chipping, good tool life and improved surface finish. 230M07 / ENIA FREECUTTING is used for the manufacture of repetition turned parts where excellent machinability is required, including the production of hydraulic fittings, nuts & bolts, studs, control linkages and especially for intricate drilling and machining operations. 230M07 / ENIA FREECUTTING can also be supplied in a Precision Ground bar condition and in a Leaded / Pb version, where even higher machining speeds are required, on which we also have Technical Guides.

BS970: 1955	BS970: 1991	COLOUR CODE	DESCRIPTION
ENIA Freecutting	230M07		Bright drawn / turned / Freecutting steel

CHEMICAL ANALYSIS		
Car	0.15 max	
Sil	0.05 max	
Mang	0.90 / 1.30	
Phos	0.09 max	
Sul	0.25 / 0.35	
Chr	-	
Moly	-	
Nick	-	
Lead	-	

INTERNATIONAL SPECIFICATION COMPARISON				
BRITISH BS 970:1991	230M07			
BRITISH BS 970:1955	ENIA			
GERMAN DIN	9SMn28			
FRENCH AFNOR	S250			
SWEDISH SS	1912			
AMERICAN SAE	1214			
EUROPEAN STEEL NO.	1.0715			
EUROPEAN STEEL NAME	I I SMn30			
EUROPEAN STANDARD	EN10277-3			

QUICK VIEW SYSTEM				
MACHINEABILITY	200			
WELDABILITY	Not recommended			
HARDENABILITY	Poor			
SELECTION GUIDE AND USAGE EXAMPLES	Highly machineable with consistent properties giving good tool life and surface finish			

SIZE RANGE SUMMARY					
	Rounds	IMP	1/8" - 9" dia		
		MM	3mm - 150mm dia		
	Hexagons	IMP	.500" - 2.760" a/f hex		
	Flats	IMP	3/4"×1/2"-6.1/2×2.1/4"		
		MM	90mm x 10mm - 165mm x 55mm		
	Squares	IMP	3/16" - 6" squ		
		MM	6mm - 90mm squ		

SEE STOCK RANGE FOR SPECIFIC SIZES.