

# TECHNICAL GUIDE

## 230M07 PG / ENIA Precision Ground

### Steel Description


230M07 / ENIA PRECISION GROUND is a popular free machining low carbon steel that is supplied in the Bright Ground condition where close diameter tolerances and an excellent surface finish is required. It is a highly machineable sulphurised material with consistent properties, resulting in very easy chipping, good tool life and improved surface finish. 230M07 / ENIA PRECISION GROUND is used for the manufacture of shafts on which bearings will revolve, conveyor systems, repetition turned parts, hydraulic fittings and especially for intricate drilling and machining operations.

BS970: 1955	BS970: 1991	COLOUR CODE	DESCRIPTION
ENIA PG	230M07 PG	-	Bright ground 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 PG
BRITISH BS 970:1955	ENIA Precision Ground
GERMAN DIN	9SMn28
FRENCH AFNOR	S250
SWEDISH SS	1912
AMERICAN SAE	1214
EUROPEAN STEEL NO.	1.0715
EUROPEAN STEEL NAME	11SMn30
EUROPEAN STANDARD	EN10277-3

QUICK VIEW SYSTEM	
MACHINEABILITY	200
WELDABILITY	Not recommended
HARDENABILITY	Poor
SELECTION GUIDE AND USAGE EXAMPLES	Repetition parts and shafts where the diameter tolerance is critical

SIZE RANGE SUMMARY			
	Rounds	IMP	1/4" - 1.1/2" dia
		MM	6mm - 50mm dia

SEE STOCK RANGE FOR SPECIFIC SIZES.