


TECHNICAL GUIDE

080A15 / EN32B

Steel Description




080A15 / EN32B is a popular low carbon mild steel that is supplied in the bright drawn or turned bar condition. It is used as a GENERAL COMMERCIAL QUALITY (GCQ) steel with reasonable machinability, but poor hardenability. 080A15 / EN32B has good weldability characteristics and is often used in case hardening applications to improve wear resistance.

BS970: 1955	BS970: 1991	COLOUR CODE	DESCRIPTION
EN32B	080A15		Bright drawn / turned mild steel

CHEMICAL ANALYSIS	
Car	0.13 / 0.18
Sil	0.10 / 0.40
Mang	0.70 / 0.90
Phos	0.05 max
Sul	0.05 max

INTERNATIONAL SPECIFICATION COMPARISON	
BRITISH BS 970:1991	080A15
BRITISH BS 970:1955	EN32B
GERMAN DIN	CK15
FRENCH AFNOR	
SWEDISH SS	I370
AMERICAN SAE	1016
EUROPEAN STEEL NO.	1.0407
EUROPEAN STEEL NAME	C16
EUROPEAN STANDARD	EN 10277-2

QUICK VIEW SYSTEM	
MACHINEABILITY	100
WELDABILITY	Good
HARDENABILITY	Poor
SELECTION GUIDE AND USAGE EXAMPLES	General purpose engineering suitable for case hardening and welding

SIZE RANGE SUMMARY			
	Rounds	IMP	1/8" - 12" dia
		MM	3mm - 400mm dia
	Flats	IMP	1/4"x3/16" - 14"x1/2"
		MM	6mm x 3mm - 200mm x 25mm
	Squares	IMP	3/8" - 6" squ
		MM	6mm - 100mm squ

SEE STOCK RANGE FOR SPECIFIC SIZES.