

## 212A42 / EN8DM / 46S20

## **Steel Description**

212A42 / EN8DM / 46S20 is a medium carbon semi freecutting steel that is supplied in the bright drawn condition. It can be heat treated for further surface hardening to produce components with enhanced wear resistance, but welding is not recommended. It is used to manufacture automotive components including pins, shafts, studs and steering linkages. 212A42 / EN8DM / 46S20 is a free machining version of 080M40 / 080A42 / EN8 on which we also have a technical guide.

BS970: 1955	BS970: 1991	COLOUR CODE	DESCRIPTION
EN8DM	212A42		Bright drawn semi freecutting carbon steel

CHEMICAL ANALYSIS			
Car	0.40 / 0.45		
Sil	0.25 max		
Mang	1.00 / 1.30		
Phos	0.06 max		
Sul	0.12 / 0.20		

INTERNATIONAL SPECIFICATION COMPARISON				
BRITISH BS 970:1991	212A42			
BRITISH BS 970:1955	EN8DM			
GERMAN DIN	46S20			
FRENCH AFNOR	35MF6			
SWEDISH SS	1957			
AMERICAN SAE	1141			
EUROPEAN STEEL NO.	1.0764			
EUROPEAN STEEL NAME	36SMn14			
EUROPEAN STANDARD	EN10277-3			

QUICK VIEW SYSTEM				
100				
Not recommended				
Small sizes suitable for induction hardening				
As EN8D, but more suitable for repetition machining				

SIZE RANGE SUMMARY					
	Rounds	IMP	1/4" - 4" dia		
		MM	8mm - 80mm dia		
	Hexagons	IMP	.750" a/f hex		
		MM	10mm - 19mm a/f hex		

SEE STOCK RANGE FOR SPECIFIC SIZES.