

535A99 / EN31 / 100CR6

Steel Description

535A99 / EN31 / 100CR6 is a bright drawn carbon alloy steel which is supplied in the spherodised annealed condition and offers a high measure of hardness with compressive strength and abrasion resistance. 535A99 / EN31 / 100CR6 is typically used for ball and roller bearings, bearing rings, collets and connecting rods.

BS970: 1955	BS970: 1991	COLOUR CODE	DESCRIPTION
EN31	535A99		Bright 1% carbon chromium steel

CHEMICAL ANALYSIS		
Car	0.95 / 1.10	
Sil	0.10 / 0.35	
Mang	0.40 / 0.70	
Phos	0.040 max	
Sul	0.050 max	
Chr	1.20 / 1.60	

INTERNATIONAL SPECIFICATION COMPARISON		
BRITISH BS 970:1991	535A99	
BRITISH BS 970:1955	EN31	
GERMAN DIN	100CR6	
FRENCH AFNOR	100C6	
SWEDISH SS	2258	
AMERICAN SAE	52100	
EUROPEAN STEEL NO.	1.2067	
EUROPEAN STEEL NAME		
EUROPEAN STANDARD		

SIZE RANGE SUMMARY				
	Rounds	IMP	1/4" dia	

SEE STOCK RANGE FOR SPECIFIC SIZES.

QUICK VIEW SYSTEM		
MACHINEABILITY	40	
WELDABILITY	Seek advice	
HARDENABILITY	High hardness and wear resistance	
SELECTION GUIDE AND USAGE EXAMPLES	Machined components subject to abrasive wear & high surface loading. Ball and roller bearings	