

8620 CASE HARDENING STEEL

8620 is a low nickel – chromium – molybdenum case hardening steel. 8620 is generally supplied in the as rolled condition and is primarily carburised with surface hardness up to 62 HRC.

Used for light to medium stressed components where surface hardness and wear resistance is required, uses include: Arbors, bearings, bushings, cam shafts, pinions, gears, guide pins, splined shafts, ratchets sleeves etc.

Stocked Sizes - Rounds 14 mm - 230 mm \emptyset

Finishes - Hot Rolled, Peeled

Related Specifications			
Australia	AS1444-1996-8620/8620H		
Germany	W. Nr 1.6523 – DIN 21NiCrMo2		
United Kingdom	BS970 Part 3 1991 - 805M20		
	BS 970 1955 – EN362		
Japan	JIS G4052 SNCM 220H		
USA	SAE/AISI 8620		
	ASTM A29/A29M 1991 8620		
	UNS G86200		
Chemical Composition			
	Min. %	Max %	
Carbon	0.17	0.23	
Silicon	0.10	0.35	
Manganese	0.60	0.95	
Nickel	0.35	0.75	
Chromium	0.35	0.65	
Molybdenum	0.15	0.25	
Phosphorous		0.04	
Sulphur		0.04	
Typical Mechanical Properties i	n the As Rolled Condition		
Mechanical Property Designation	on		
Tensile Strength Mpa	Approx.	820	
0.20% Proof Stress (Yield) Mpa	Approx.	590	
Elongation on %	Approx.	22	
Hardness Brinell HB	Approx.	240	
Annealing			
Heat to 820-850 Deg C. Hold un	til temperature is uniform thr	oughout the section and allow to cool in furnace.	