

4140 HARD CHROME PLATED BAR

4140 High Tensile Chrome Plated Bar is supplied in the hardened and tempered condition, Cold Drawn or Turned, ground, chrome plated and polished. Chrome plating hardness has a surface hardness of HV 1000-1150. 4140 Chrome bar is used in applications demanding higher yield and tensile strength compared to 1045 Chrome Bar, and is also available in the Induction Hardened condition in some sizes. Induction Hardened 4140 generally has a hardened depth of approximately 3mm and hardness of 55-65 HRC.

Typical Applications include: Agricultural equipment, compressors, jacks, transport lifting equipment, hoists and mining learthmaxing agricultural equipment.

Available Sizes			n – 120 mm Ø - 6′′ Ø			
Related Specifica	tions – Base N	laterial				
Australia		AS 1444	AS 1444 – 1996 4140			
Germany		W. Nr 1	W. Nr 1.7225 42CrMo4			
Japan		JIS G410	JIS G4105 SCM440			
USA		AISI/SAI	AISI/SAE 4140			
		ASTM A	ASTM A29/A29M – 91 4140			
		UNS G4	UNS G41400			
Chemical Compos	sition*					
		Min. %	Min. %		Max %	
Carbon		0.36	0.36		0.44	
Silicon		0.10	0.10		0.40	
Manganese		0.65	0.65		1.10	
Chromium		0.75	0.75		1.20	
Molybdenum		0.15	0.15		0.35	
Phosphorous					0.04	
Sulphur					0.04	
Typical Machania	al Droportion	Pacad on Turnad Pr	ar – (For Guidance C) nhv)		
Tensile Strength (based off fulfied ba		850-1000		
Yield Strength (M			650-850			
Elongation in 50m			14-30			
Hardness (Brinell			248-302			
Hard Chrome Pla				240-302		
Typical Surface Hardness (Chrome Plated)				HV 1000-1150		
Typical Surface Sr		ne riacea)		0.10 – 0.30 um Ra (Microns)		
Typical Surface De				0.025-0.050mm (0.001''-0.002'')		
Diameter & Strai	•	nce		0.020 0.000		
			Over 51mm to	to 102mm Dia Over 102 mm dia		
Dia Tol (mm)	+0 -0.025		+0	-0.05	+0	-0.075
Straightness 0.25mm/1000mm			0.30mm/1000mm			