Material: ASTM A 29 4140

Standard Specification for Hot and Cold-Finished Carbon and Alloy Steel Bars

Group: *Ferrous Mild Steel Alloys*
Sub Group: *ASTM A 29 4140 Hot and Cold-Finished Carbon and Alloy Steel Bars*
Application: *Intended for Valve, Pump, General Engineering, Automotive and Other Industries*
Grade Belongs to the Industry: *Bar, Wire, Tube and Forging*

Chemical Composition		
Carbon	C %	0.380 - 0.430
Silicon	Si %	0.150 - 0.350
Manganese	Mn %	0.750 - 1.000
Phosphorus	P %	0.035 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	0.800 - 1.100
Molybdenum	Mo %	0.150 - 0.250
Nickel	Ni %	0.250 max.
Copper	Cu %	0.350 max.
Niobium	Nb %	0.015 max.
Vanadium	V %	0.020 max.
Aluminium	Al %	0.020 max.
Iron	Fe %	Balance
-	-	-
-	-	-

Heat Treatment
As- Cast or Normalizing or Annealing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	-
Yield Strength in Mpa	-
Elongation in %	-
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
A915 Grade SC 4140	ASTM	USA	Casting
J1405	UNS	USA	Bar, Wire, Tube and Forging
4140	AISI	USA	Bar, Wire, Tube and Forging
4140	SAE	USA	Bar, Wire, Tube and Forging
4140	AS	Australia	Bar, Wire, Tube and Forging
4140	AMS	USA	Bar, Wire, Tube and Forging
A 505 4140	ASTM	USA	Bar, Wire, Tube and Forging

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