Material: ASTM A 29 4340

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

Group: *Ferrous Mild Steel Alloys*
Sub Group: *ASTM A 29 4340 Hot - 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 %	0.600 - 0.800
Phosphorus	P %	0.035 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	0.700 - 0.900
Nickel	Ni %	1.650 - 2.000
Molybdenum	Mo %	0.200 - 0.300
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	862 - 1931
Yield Strength in Mpa	934.2 min.
Elongation in %	4 min.
Reduction of Area in %	20 min.
Hardness in HB	187 - 322
Impact in Joule	14.2 - 52.7 J @ RT

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
A915 Grade SC 4340	ASTM	USA	Casting
J24053	UNS	USA	Casting
4340	AISI	USA	Bar, Wire, Tube and Forging
4340	AS	Australia	Bar, Wire, Tube and Forging
4340	AMS	USA	Bar, Wire, Tube and Forging
4340	SAE	USA	Bar, Wire, Tube and Forging
A 505 4340	ASTM	USA	Bar, Wire, Tube and Forging

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