

Material: ASTM A580 S44700

Standard Specification for Ferritic Stainless and Heat Resisting Steel Wire

Group: Ferrous Stainless Steel Alloys

Sub Group: ASTM A 580/A 580M Ferritic Stainless and Heat Resisting Steel Wire

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Wire

Chemical Composition			Heat Treatment	
Carbon	C %	0.010 max.	Normalizing or Annealing or Hardening + Tempering	
Silicon	Si %	0.200 max.		
Manganese	Mn %	0.300 max.		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	28.000 - 30.000		
Molybdenum	Mo %	3.500 - 4.200		
Nickel	Ni %	0.150 max.		
C + N	C % + N %	0.025 max.	Mechanical Properties	
Nitrogen	N %	0.020 max.	Tensile Strength in Mpa	485 min.
Copper	Cu %	0.150 max.	Yield Strength in Mpa	380 min.
Iron	Fe %	Balance	Elongation in %	15 min.
-	-	-	Reduction of Area in %	30 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
S44700	UNS	USA	Plate, Sheet and Strip
A176 S44700	ASTM	USA	Plate, Sheet and Strip
A268 29-4	ASTM	USA	Tube
A493 S44700	ASTM	USA	Forging
SA-731 29-4	ASME	USA	Plate, Sheet and Strip
A791 Grade 29-4	ASTM	USA	Tube
A731 29-4	ASTM	USA	Casting

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Customer Care: +91-99090 45075 Email: info@icastllp.com