

Material: ASTM A732 7Q

Standard Specification for Castings, Investment, Carbon and Low Alloy Steel for General Application, and Cobalt Alloy for High Strength at Elevated Temperatures

Group: Ferrous Mild Steel Alloys

Sub Group: ASTM A732 / A7323M Casting, Investment, Carbon and Low Alloy Steel for General Application

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.250 - 0.350
Silicon	Si %	0.200 - 0.800
Manganese	Mn %	0.400 - 0.700
Phosphorus	P %	0.040 max.
Sulphur	S %	0.045 max.
Chromium	Cr %	0.800 - 1.100
Copper	Cu %	0.500 max.
Molybdenum	Mo %	0.150 - 0.250
Tungsten	W %	0.100 max.
Other	Ot %	0.600 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Annealing or Normalizing 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
4130	AISI	USA	Forging, Bar, Wire, and Shape
J13045	UNS	USA	Forging, Bar, Wire, and Shape
4130	SAE	USA	Bar, Tube, Sheet, Strip and Forging
A579 G13	ASTM	USA	Forging
J13048	UNS	USA	Casting
K 13247	UNS	USA	Steel
4130	AMS	USA	Bar and Forging

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