

Material: ASTM A732 9Q

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 %	0.700 - 0.900
Nickel	Ni %	1.650 - 2.000
Molybdenum	Mo %	0.200 - 0.300
Copper	Cu %	0.500 max.
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
4330	AISI	USA	Forging, Bar, Wire, and Shape
J23055	UNS	USA	Casting
4330	SAE	USA	Bar, Tube, Sheet, Strip and Forging
4330	AMS	USA	Bar and Forging
J23015	UNS	USA	Casting
A487 10A	ASTM	USA	Casting
SA 487 10A	ASME	USA	Casting

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