

## 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			Heat Treatment	
Carbon	C %	0.250 - 0.350	Annealing or Normalizing or Hardening + Tempering	
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.	<b>Mechanical Properties</b> Tensile Strength in Mpa 1030 min. Yield Strength in Mpa 793 min. Elongation in % 7 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

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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