

## Material: ASTM A732 12Q

**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 %	0.450 - 0.550	Annealing or Normalizing or Hardening + Tempering	
Silicon	Si %	0.200 - 0.800		
Manganese	Mn %	0.650 - 0.950		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.045 max.		
Chromium	Cr %	0.800 - 1.100		
Nickel	Ni %	0.500 max.		
Mo + W	Mo% + W%	0.100 max.		
Vanadium	V %	0.150 min.		
Copper	Cu %	0.500 max.	Mechanical Properties	
other	Ot %	1.000 max.	Tensile Strength in Mpa	1310 min.
Iron	Fe %	Balance	Yield Strength in Mpa	1172 min.
-	-	-	Elongation in %	4 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
6150	AISI	USA	Ingot, Rolling, Bar, Strip and Tube
6150	SAE	USA	Steel and Bar
6150	AMS	USA	Steel and Bar
J15048	UNS	USA	Casting
6150	AS	Australia	Steel
K15047	UNS	USA	Steel
K15048	UNS	USA	Steel

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