

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		
Carbon	C %	0.450 - 0.550
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.
other	Ot %	1.000 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment	
Annealing or Normalizing or Hardening + Tempering	

Mechanical Properties	
Tensile Strength in Mpa	1310 min.
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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