

# Material: UNS J13048

## Standard Specification for Alloy Steel Casting

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** UNS J13048 Alloy Steel Casting

**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 %	0.025 max.
Sulphur	S %	0.025 max.
Chromium	Cr %	0.800 - 1.100
Molybdenum	Mo %	0.150 - 0.250
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalizing or Hardening + Tempering

Mechanical Properties	
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	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J13045	UNS	USA	Casting
4130	SAE	USA	Bar, Tube, Sheet, Strip and Forging
A579 Grade 13	ASTM	USA	Forging
4130	AISI	USA	Forging, Bar, Wire, and Shape
K13247	UNS	USA	Steel
AMS 4130	AMS	USA	Bar and Forging
A732 7Q	ASTM	USA	Casting

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