

Material: UNS J13045

Standard Specification for Alloy Steel Casting

Group: Ferrous Mild Steel Alloys

Sub Group: UNS J13045 Alloy Steel Casting

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 %	0.800 - 1.100		
Copper	Cu %	0.500 max.		
Molybdenum	Mo %	0.150 - 0.250		
Tungsten	W %	0.100 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	480 - 1379
-	-	-	Yield Strength in Mpa	345 min.
-	-	-	Elongation in %	5 min.
-	-	-	Reduction of Area in %	20 min.
-	-	-	Hardness in HRC	25 max.
-	-	-	Impact in Joule	79.1 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
AISI 4130	AISI	USA	Forging, Bar, Wire, and Shape
4130	SAE	USA	Bar, Tube, Sheet, Strip and Forging
A579 Grade 13	ASTM	USA	Forging
J13048	UNS	USA	Casting
K13247	UNS	USA	Steel
AMS 4130	AMS	USA	Bar and Forging
A732 7Q	ASTM	USA	Casting

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