

Material: UNI G12Ni14

Standard Specification for Low Alloy Steel With Low Temperature Toughness for Castings Subject to Pressure

Group: Ferrous Mild Steel Alloys

Sub Group: UNI G12Ni14 Low Alloy Steel With Low Temperature Toughness for Castings Subject to Pressure

Application: Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry: Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 max.	Normalizing + Tempering or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.800 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Nickel	Ni %	3.000 - 4.000		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties Tensile Strength in Mpa 440 min. Yield Strength in Mpa 275 min. Elongation in % 21 min. Reduction of Area in % - Hardness in BHN - Impact in Joule -	
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-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-352 Grade LC3	ASME	USA	Casting
1.5638	DIN	Germany	Casting
1.5638	EN	European Union	Casting
503-490	BS	British	Forging
AM8Ni14	UNE	Spain	Casting
J31550	UNI	Italy	Casting
A352 LC3	ASTM	USA	Casting

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