



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.		
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.800 max.		
Phosphorus	P %	0.035 max.	Normalising + Tempering or Hardening + Tempering	
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	-
-	-	-	Impa <mark>ct in Joule</mark>	-

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		

Further any inquiry to discuss with Gravity Cast Pvt. Ltd. – Gravity Group of Companies team member Call on +918469160029, or email marketing@gravitycastindia.com

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