



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - EN G 9 Ni 14

Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - EN G 9 Ni 14 Steel Castings for Pressure Purposes

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment			
Carbon	C %	0.060 - 0.120	Normalizing or Quenching or Solution Annealing			
Silicon	Si %	0.600 max.				
Manganese	Mn %	0.500 - 0.800				
Phosphorus	P %	0.020 max.				
Sulphur	S %	0.015 max.				
Chromium	Cr %	0.300 max.				
Molybdenum	Mo %	0.200 max.				
Nickel	Ni %	3.000 - 4.000				
Copper	Cu %	0.300 max.				
Vanadium	V %	0.050 max.				
Iron	Fe %	Balance	Mechanical Properties			
-	-	-			Tensile Strength in Mpa	500 - 650
-	-	-			Yield Strength in Mpa	360 min.
-	-	-			Elongation in %	20 min.
-	-	-			Reduction of Area in %	-
-	-	-			Hardness in BHN	-
-	-	-	Impact in Joule	27 J @ RT		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN 10213 G9Ni14	BS	British	Plate, Tubes and Forging
G9Ni14	ISO	International	Casting
1.5638	ISO	International	Casting
A 352 Grade LC3	ASTM	USA	Casting
A 352 J31550	ASTM	USA	Casting
G 9 Ni 14	CSN	Czech Republic	Casting
G 9 Ni 14	DIN	Germany	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

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

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