



Material - DIN G 9 Ni 14

Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - DIN 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	<table border="1"> <thead> <tr> <th colspan="2">Mechanical Properties</th> </tr> </thead> <tbody> <tr> <td>Tensile Strength in Mpa</td> <td>500 - 650</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>360 min.</td> </tr> <tr> <td>Elongation in %</td> <td>20 min.</td> </tr> <tr> <td>Reduction of Area in %</td> <td>-</td> </tr> <tr> <td>Hardness in BHN</td> <td>-</td> </tr> <tr> <td>Impact in Joule</td> <td>27 J @ RT</td> </tr> </tbody> </table>		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
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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	EN	European Union	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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