



Material - PN G24Mn6

Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - PN G24Mn6 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 %	0.200 - 0.250	Normalizing or Quenching or Solution Annealing															
Silicon	Si %	0.600 max.																
Manganese	Mn %	1.500 - 1.800																
Phosphorus	P %	0.020 max.																
Sulphur	S %	0.015 max.																
Chromium	Cr %	0.300 max.																
Molybdenum	Mo %	0.150 max.																
Nickel	Ni %	0.400 max.																
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>600 - 800</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>400 min.</td> </tr> <tr> <td>Elongation in %</td> <td>12 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	600 - 800	Yield Strength in Mpa	400 min.	Elongation in %	12 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 G24Mn6	BS	British	Plate, Tubes and Forging
G24Mn6	EN	European Union	Casting
G24Mn6	AFNOR NF	France	Casting
G24Mn6	DIN	Germany	Casting
G24Mn6	UNI	Italy	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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