



## Material - EN 1.4417

### Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Stainless Steel Alloys

Sub Group - EN 1.4417 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 %	0.030 max.	Normalizing or Quenching or Solution Annealing															
Silicon	Si %	1.000 max.																
Manganese	Mn %	1.500 max.																
Phosphorus	P %	0.030 max.																
Sulphur	S %	0.020 max.																
Chromium	Cr %	24.000 - 26.000																
Molybdenum	Mo %	3.000 - 4.000																
Nickel	Ni %	6.000 - 8.500																
Copper	Cu %	1.000 max.																
Nitrogen	N %	0.150 - 0.250			<table border="1"> <thead> <tr> <th colspan="2">Mechanical Properties</th> </tr> </thead> <tbody> <tr> <td>Tensile Strength in Mpa</td> <td>650 - 850</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>480 min.</td> </tr> <tr> <td>Elongation in %</td> <td>22 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>50 J @ RT</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	650 - 850	Yield Strength in Mpa	480 min.	Elongation in %	22 min.	Reduction of Area in %	-	Hardness in BHN	-
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Elongation in %	22 min.																	
Reduction of Area in %	-																	
Hardness in BHN	-																	
Impact in Joule	50 J @ RT																	
Tungsten	W %	1.000 max.																
Iron	Fe %	Balance																
-	-	-																
-	-	-																
-	-	-																

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
GX2CrNiMoN25-7-3	BS	British	Plate, Tubes and Forging
GX2CrNiMoN25-7-3	ISO	International	Casting
1.4417	ISO	International	Casting
GX2CrNiMoN25-7-3	BDS	Bulgaria	Casting
1.4417	BDS	Bulgaria	Casting
GX2CrNiMoN25-7-3	CSN	Czech Republic	Casting
1.4417	CSN	Czech Republic	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](mailto:marketing@gravitycastindia.com)**

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