

# Material: BS 10213 EN 1.0625

## Standard Specification for Steel Castings for Pressure Purposes

**Group:** Ferrous Mild Steel Alloys

**Sub Group:** BS 10213 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 %	0.180 - 0.250	Normalising or Annealing or Hardening + Tempering															
Silicon	Si %	0.600 max.																
Manganese	Mn %	0.800 - 1.200																
Phosphorus	P %	0.030 max.																
Sulphur	S %	0.020 max.																
Chromium	Cr %	0.300 max.																
Nickel	Ni %	0.400 max.																
Molybdenum	Mo %	0.120 max.																
Copper	Cu %	0.300 max.																
Vanadium	V %	0.030 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>480 - 640</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>280 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>27 min. @ RT</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	480 - 640	Yield Strength in Mpa	280 min.	Elongation in %	22 min.	Reduction of Area in %	-	Hardness in BHN	-	Impact in Joule	27 min. @ RT
Mechanical Properties																		
Tensile Strength in Mpa	480 - 640																	
Yield Strength in Mpa	280 min.																	
Elongation in %	22 min.																	
Reduction of Area in %	-																	
Hardness in BHN	-																	
Impact in Joule	27 min. @ RT																	
-	-	-																
-	-	-																
-	-	-																
-	-	-																
-	-	-																

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA 216 WCB	ASME	USA	Casting
A757 A1Q	ASTM	USA	Casting
J03002	UNS	USA	Casting
1.0619	BS	British	Casting
1.0619	EN	European Union	Casting
A660 WCB	ASTM	USA	Fusion Welding, Bending and Forming
SA 660 WCB	ASME	USA	Centrifugal Casting

**Disclaimer:** All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

**Customer Care:** +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)