Material: BS 10213 EN 1.1131

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		
Carbon	C %	0.150 - 0.200
Silicon	Si %	0.600 max.
Manganese	Mn %	1.000 - 1.600
Phosphorus	P %	0.020 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
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalising or Annealing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	450 - 600
Yield Strength in Mpa	240 min.
Elongation in %	24 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	27 min. @ -40˚C

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
SA 216 WCC	ASME	USA	Casting
A660 WCC	ASTM	USA	Fusion Welding, Bending and Forming
SA 660 WCC	ASME	USA	Centrifugal Casting
J02503	UNS	USA	Casting
A216 WCB	ASTM	USA	Casting
1.0619	EN	European Union	Casting
1.0619	BS	British	Casting

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