

Material: BS 161-480

Standard Specification for Castings for Pressure Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: BS 161-480 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 %	0.300 max.	Annealing or Normalizing or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.900 max.		
Phosphorus	P %	0.050 max.		
Sulphur	S %	0.050 max.		
Chromium	Cr %	0.250 max.		
Nickel	Ni %	0.400 max.		
Molybdenum	Mo %	0.150 max.		
Copper	Cu %	0.300 max.	Mechanical Properties	
Other	Ot %	0.800 max.	Tensile Strength in Mpa	480 min.
Iron	Fe %	Balance	Yield Strength in Mpa	241 min.
-	-	-	Elongation in %	20 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	20 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
J03011	UNS	USA	Casting
1.1811	DIN	Germany	Casting
1030	AISI	USA	Forging, Bar, Wire, and Shape
1.5408	EN	European Union	Rod, Bars, Wire and Extrusion
SCPL1	JIS	Japan	Casting
A732 2Q	ASTM	USA	Casting
A732 2A	ASTM	USA	Casting

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Customer Care: +91-99090 45075 Email: info@icastllp.com