



Material - BS 10213 EN 1.6781

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 %	0.150 - 0.190	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.500 max.		
Manganese	Mn %	0.550 - 0.800		
Phosphorus	P %	0.015 max.		
Sulphur	S %	0.015 max.		
Chromium	Cr %	1.300 - 1.800		
Nickel	Ni %	3.000 - 3.500		
Molybdenum	Mo %	0.450 - 0.600		
Copper	Cu %	0.300 max.		
Vanadium	V %	0.050 max.		
Iron	Fe %	Balance	Mechanical Properties Tensile Strength in Mpa 750 - 900 Yield Strength in Mpa 600 min. Elongation in % 15 min. Reduction of Area in % - Hardness in BHN - Impact in Joule 27 min. @ -80°C	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.6781	BS	British	Casting
G17NiCrMo13-6	EN	European Union	Casting
G17NiCrMo13-6	DIN	Germany	Casting
G17NiCrMo13-6	AFNOR NF	France	Casting
G17NiCrMo13-6	UNI	Italy	Casting
GS-18NiCrMo12 6	DIN	Germany	Casting
1.6781	DIN	Germany	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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