



## Material - ISO 1.6781

### Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - ISO 1.6781 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	Normalizing or Quenching or Solution Annealing	
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		
Molybdenum	Mo %	0.450 - 0.600		
Nickel	Ni %	3.000 - 3.500		
Copper	Cu %	0.300 max.		
Vanadium	V %	0.050 max.		
Iron	Fe %	Balance	<b>Mechanical Properties</b> 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      -	
-	-	-		
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Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
EN 10213 G17NiCrMo13-6	BS	British	Plate, Tubes and Forging
G17NiCrMo13-6	ISO	International	Casting
A 352 Grade LC2-1	ASTM	USA	Casting
A 352 J42215	ASTM	USA	Casting
G 17 NiCrMo13 6	ONORM	Australia	Casting
G 17 NiCrMo13 6	NBN	Belgium	Casting
G 17 NiCrMo13 6	BDS	Bulgaria	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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