



Material - BS 10213 EN 1.5419

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 - 0.230	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.500 - 1.000		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	0.300 max.		
Nickel	Ni %	0.400 max.		
Molybdenum	Mo %	0.400 - 0.600		
Copper	Cu %	0.300 max.		
Vanadium	V %	0.050 max.		
Iron	Fe %	Balance	Mechanical Properties Tensile Strength in Mpa 440 - 590 Yield Strength in Mpa 245 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
G18Mo5	UNI	Italy	Steel
StE285	DIN	Germany	Steel
TS 15 CD 2-05	AFNOR NF	France	Steel
WStE 285	DIN	Germany	Steel
1.0486	BS	British	Steel
1.0488	BS	British	Steel
1.0487	BS	British	Steel

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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