



GRAVITY CAST PVT. LTD.
GRAVITY GROUP OF COMPANIES

Material - DIN WStE 285

Standard Specification for Steel Castings for Pressure Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - DIN WStE 285 Steel Castings for Pressure Purposes

Application - Intended for Valve, Pump, General Engineering, Automotive and Other Industries

Grade Belongs to the Industry - Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.180 max.	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.400 max.		
Manganese	Mn %	0.600 - 1.400		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	0.300 max.		
Molybdenum	Mo %	0.080 max.		
Nickel	Ni %	0.300 max.		
Niobium	Nb %	0.030 max.		
Aluminium	Al %	0.020 min.		
Copper	Cu %	0.450 max.		
Nitrogen	N %	0.020 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		

Mechanical Properties	
Tensile Strength in Mpa	390 - 510
Yield Strength in Mpa	205 min.
Elongation in %	21 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	31 J @ 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
1.5422	EN	European Union	Steel
1.0486	DIN	Germany	Steel
1.0488	DIN	Germany	Steel
1.0487	DIN	Germany	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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