

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.	Normalizing 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

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