

Material: DIN 1.0486

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: DIN 1.0486 Steel Castings for Pressure Purposes

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

Grade Belongs to the Industry: Steel

Chemical Composition		
Carbon	C %	0.180 max.
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
-	-	-
-	-	-

Heat Treatment	
Normalizing or Annealing or Hardening + Tempering	

Mechanical Properties	
Tensile Strength in Mpa	340 - 510
Yield Strength in Mpa	205 min.
Elongation in %	21 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
1.5422	EN	European Union	Steel
WStE 285	DIN	Germany	Steel
1.0488	DIN	Germany	Steel
1.0487	DIN	Germany	Steel

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