

Material - DIN 1.8866

Standard Specification for Flat Products for Pressure Purposes

Group - Ferrous Mild Steel Alloys

Sub Group - DIN 1.8866 Flat Products for Pressure Purposes

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

Grade Belongs to the Industry - Steel

Chemical Composition		Heat Treatment	
C %	0.160 max.		
Si %	0.400 max.		
Mn %	1.500 max.	Annealing or Normalising or Hardening + Tempering	
Р%	0.025 max.		
S %	0.010 max.		
Cr %	0.300 max.		
Ni %	0.500 max.		
Mo %	0.250 max.		
V %	0.060 max.	Mechanical Properties	
Nb %	0.050 max.	Tensile Strength in Mpa	490 - 630
Ti %	0.030 max.	Yield Strength in Mpa	315 min.
N %	0.015 min.	Elongation in %	22 min.
Cu %	0.300 max.	Reduction of Area in %	-
Zr %	0.050 max.	Hardn <mark>ess in BH</mark> N	-
Fe %	Balance	Impac <mark>t in Joule</mark>	40 J @ RT
	C % Si % Mn % P % S % Cr % Ni % Mo % V % Nb % Ti % N % Cu % Zr %	C % 0.160 max. Si % 0.400 max. Mn % 1.500 max. P % 0.025 max. S % 0.010 max. Cr % 0.300 max. Ni % 0.500 max. V % 0.060 max. Nb % 0.050 max. Ti % 0.030 max. N % 0.015 min. Cu % 0.300 max.	C % 0.160 max. Si % 0.400 max. Mn % 1.500 max. P % 0.025 max. S % 0.010 max. Cr % 0.300 max. Ni % 0.500 max. Mo % 0.250 max. V % 0.060 max. Nb % 0.050 max. Ti % 0.030 max. N % 0.015 min. Elongation in % Cu % 0.300 max. Tr % 0.050 max. Keduction of Area in % Zr % 0.050 max.

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
1.8830	EN	European Union	Steel	
4020	AISI	USA	Forging, Bar, Wire, and Shape	
C450L0	AS	Australia	Steel	
P355Q	AFNOR NF	France	Steel	
P355QH	UNI	Italy	Steel	
C450	AS	Australia	Steel	
A732 6N	ASTM	USA	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

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