

Material: EN 1.8830

Standard Specification for Fine Grain Structural Steel

Group: Ferrous Mild Steel Alloys

Sub Group: EN 1.8830 Fine Grain Structural Steel

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

Grade Belongs to the Industry: Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.140 max.	Annealing or Normalizing or Hardening + Tempering	
Silicon	Si %	0.550 max.		
Manganese	Mn %	1.650 max.		
Phosphorus	P %	0.020 max.		
Sulphur	S %	0.010 max.		
Nitrogen	N %	0.010 max.		
Nickel	Ni %	0.070 max.		
Molybdenum	Mo %	0.250 max.		
Vanadium	V %	0.080 max.	Mechanical Properties	
Niobium	Nb %	0.050 max.	Tensile Strength in Mpa	480 - 660
Titanium	Ti %	0.025 max.	Yield Strength in Mpa	380 min.
Aluminium	Al %	0.015 - 0.055	Elongation in %	19 min.
Iron	Fe %	Balance	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
AISI 4020	AISI	USA	Forging, Bar, Wire, and Shape
1.8866	DIN	Germany	Steel
C450L0	AS	Australia	Steel
P355Q	AFNOR NF	France	Steel
P355QH	UNI	Italy	Steel
C450	AS	Australia	Steel
A732 6N	ASTM	USA	Casting

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