

Material: EN 1.8920

Standard Specification for Plates and Wide Flats Made of High Yield Strength Structural Steels

Group: Ferrous Mild Steel Alloys

Sub Group: EN 1.8920 Plates and Wide Flats Made of High Yield Strength Structural Steels

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

Grade Belongs to the Industry: Steel

Chemical Composition		
Carbon	C %	0.100 - 0.200
Silicon	Si %	0.150 - 0.350
Manganese	Mn %	0.600 - 1.000
Phosphorus	P %	0.025 max.
Sulphur	S %	0.250 max.
Chromium	Cr %	0.400 - 0.650
Nickel	Ni %	0.700 - 1.000
Molybdenum	Mo %	0.400 - 0.600
Copper	Cu %	0.150 - 0.500
Vanadium	V %	0.030 - 0.080
Boron	B %	0.0005 min.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-

Heat Treatment
Annealing or Normalizing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	795 min.
Yield Strength in Mpa	690 min.
Elongation in %	15 min.
Reduction of Area in %	30 min.
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.8719	DIN	Germany	Steel
J12084	UNS	USA	Casting
6386 Type 12	AMS	USA	Steel
K11576	UNS	USA	Casting
SA-487 Grade 7A	ASME	USA	Casting
SA-592 Grade F	ASME	USA	Forging
A487 7A	ASTM	USA	Casting

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