

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			Heat Treatment	
Carbon	C %	0.100 - 0.200		
Silicon	Si %	0.150 - 0.350		
Manganese	Mn %	0.600 - 1.000	Annealing or Normalising or Hardening + Tempering	
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	Mechanical Properties	
Vanadium	V %	0.030 - 0.080	Tensile Strength in Mpa	795 min.
Boron	В %	0.0005 min.	Yield Strength in Mpa	690 min.
Iron	Fe %	Balance	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	

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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