

Material: DIN 1.8719

Standard Specification for High Strength Low Alloyed NiCrMnMo Steel

Group: Ferrous Mild Steel Alloys

Sub Group: DIN 1.8719 High Strength Low Alloyed NiCrMnMo Steel

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
J12084	UNS	USA	Casting
1.892	EN	European Union	Steel
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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