

Material - DIN 9 NiMn 5

Standard Specification for Low Alloyed NiMn Steel

Group - Ferrous Mild Steel Alloys

Sub Group - DIN 9 NiMn 5 Low Alloyed NiMn Steel

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

Grade Belongs to the Industry - Steel

Chemical Composition			Heat Treatment	
Carbon	C %	0.060 - 0.120		
Silicon	Si %	0.050 - 0.150		
Manganese	Mn %	0.800 - 1.200	Annealing or Normalising or Hardening + Tempering	
Phosphorus	Р%	0.020 max.		ardening + Tempering
Sulphur	S %	0.020 max.		
Chromium	Cr %	0.200 max.		
Nickel	Ni %	1.000 - 1.300		
Copper	Cu %	0.220 max.		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	485 - 655
-	-	-	Yield Strength in Mpa	275 min.
-	-	-	Elongation in %	22 min.
-	-	-	Reduction of Area in %	22 min.
-	-	-	Hardn <mark>ess in BH</mark> N	-
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
SA-487 Garde 16A	ASME	USA	Casting	
1.6222	DIN	Germany	Steel	
1.8932	EN	European Union	Forging	
E 460 DD	JIS	Japan	Plate	
P 420 NH	EN	European Union	Forging	
J31200	UNS	USA	Casting	
A487 16A	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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