



**GRAVITY CAST PVT. LTD.**  
**GRAVITY GROUP OF COMPANIES**

## Material - DIN 1.5681

### Standard Specification for Alloyed NiMn steel

Group - Ferrous Mild Steel Alloys

Sub Group - DIN 1.5681 Alloyed NiMn steel

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.060 - 0.120	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.600 max.		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.020 max.		
Nickel	Ni %	4.500 - 5.500		
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Molybdenum	Mo %	0.250 max.		
Vanadium	V %	0.300 max.		
Copper	Cu %	0.500 max.		
Iron	Fe %	Balance		
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

  

Mechanical Properties	
Tensile Strength in Mpa	550 - 750
Yield Strength in Mpa	380 min.
Elongation in %	18 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	60 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
E2512	AISI	USA	Casting
GX 10 Ni 5	DIN	Germany	Casting
AM 8 Ni 18	UNE	Spain	Casting
Ao 10 Ni 20	MSZ	Hungary	Casting
2512.0000	SAE	USA	Steel
J41501	UNS	USA	Casting
A757 B4N B4Q	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](mailto:marketing@gravitycastindia.com)**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.

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