



## Material - UNE AM 8 Ni 18

### Standard Specification for Ferritic Casting Steels for Low Temperatures

Group - Ferrous Mild Steel Alloys

Sub Group - UNE AM 8 Ni 18 Ferritic Casting Steels for Low Temperatures

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 max.	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.300 - 0.600		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.0350 max.		
Sulphur	S %	0.035 max.		
Nickel	Ni %	4.000 - 5.000		
Iron	Fe %	Balance		
-	-	-		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	485 min.
-	-	-	Yield Strength in Mpa	275 min.
-	-	-	Elongation in %	24 min.
-	-	-	Reduction of Area in %	35 min.
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	20 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
E2512	AISI	USA	Casting
GX 10 Ni 5	DIN	Germany	Casting
2512.0000	SAE	USA	Steel
Ao 10 Ni 20	MSZ	Hungary	Casting
J41501	UNS	USA	Casting
1.5681	DIN	Germany	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)**

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