



## Material - UNI G9Ni10

### Standard Specification for Alloy Steel Casting

Group - Ferrous Stainless Steel Alloys

Sub Group - UNI G9Ni10 Alloy Steel Casting

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 %	0.020 max.				
Sulphur	S %	0.015 max.				
Chromium	Cr %	0.300 max.				
Nickel	Ni %	2.000 - 3.000				
Molybdenum	Mo %	0.150 max.				
Vanadium	V %	0.050 max.				
Copper	Cu %	0.300 max.				
Iron	Fe %	Balance	<th colspan="2">Mechanical Properties</th>		Mechanical Properties	
-	-	-	Tensile Strength in Mpa	480 - 630		
-	-	-	Yield Strength in Mpa	280 min.		
-	-	-	Elongation in %	24 min.		
-	-	-	Reduction of Area in %	35 min.		
-	-	-	Hardness in BHN	-		
-	-	-	Impact in Joule	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
24 Ni 8	DIN	Germany	Steel
G 9 Ni 10	EN	European Union	Casting
SCPL 21	JIS	Japan	Casting
G9Ni10	UNS	USA	Casting
AH 60	MSZ	Hungary	Steel
A757 B2N B2Q	ASTM	USA	Casting
20 N 8	AFNOR NF	France	Steel

**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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