

## Material - DIN G 19 NiCrMo 12 6

## Standard Specification for Heat treatable alloyed NiCrMo steel

Group - Ferrous Mild Steel Alloys

Sub Group - DIN G 19 NiCrMo 12 6 Heat treatable alloyed NiCrMo steel

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.220 max.		
Silicon	Si %	0.600 max.	Normalising or Annealing or Hardening + Tempering	
Manganese	Mn %	0.500 - 0.800		
Phosphorus	Р%	0.025 max.		
Sulphur	S %	0.020 max.		
Chromium	Cr %	1.350 - 1.850		
Molybdenum	Mo %	0.350 - 0.600		
Nickel	Ni %	2.500 - 3.500		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	620 min.
-	-	-	Yield Strength in Mpa	450 min.
-	-	-	Elongation in %	22 min.
-	-	-	Reduction of Area in %	40 min.
-	-	-	Hardn <mark>ess in BH</mark> N	-
-	-	-	Impac <mark>t in Joule</mark>	41 J @ RT

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
1.6783	EN	European Union	Casting	
1.6783	DIN	Germany	Casting	
UNS J42220	UNS	USA	Casting	
G19 NiCrMo 12-6	EN	European Union	Casting	
A757 Grade E1Q	ASTM	USA	Casting	
A757 Grade E2N1, E2Q1	ASTM	USA	Casting	
A757 Grade E2N1, E2Q2	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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