



## Material - EN G 19 NiCrMo 12 6

## Standard Specification for Heat treatable alloyed NiCrMo steel

**Group - Ferrous Mild Steel Alloys** 

Sub Group - EN 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	P %	0.025 max.		
Sulphur	S %	0.025 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.
-	-	-	Hardness in BHN	-
-	-	-	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	DIN	Germany	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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