



## Material - PN L 17 HMF

### Standard Specification for High Temperature Cast Steel

Group - Ferrous Mild Steel Alloys

Sub Group - PN L 17 HMF High Temperature Cast Steel

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.150 - 0.200	Normalising or Annealing or Hardening + Tempering	
Silicon	Si %	0.300 - 0.600		
Manganese	Mn %	0.500 - 0.800		
Phosphorus	P %	0.030 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	1.200 - 1.500		
Molybdenum	Mo %	0.900 - 1.100		
Vanadium	V %	0.200 - 0.300		
Iron	Fe %	Balance	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	590 - 780
-	-	-	Yield Strength in Mpa	440 min.
-	-	-	Elongation in %	15 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	165 - 242
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
422744.0000	CSN	Czech Republic	Casting
1.7706	EN	European Union	Casting
1.7706	DIN	Germany	Casting
G 17 CrMoV 5-10	AFNOR NF	France	Casting
G 17 CrMoV 5-10	UNI	Italy	Casting
J21610	UNS	USA	Casting
A356 9	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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