

Material: PN L 17 HM

Standard Specification for Alloyed Cast Steel

Group: Ferrous Mild Steel Alloys

Sub Group: PN L 17 HM Alloyed Cast Steel

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.130 - 0.220
Silicon	Si %	0.300 - 0.500
Manganese	Mn %	0.500 - 0.800
Phosphorus	P %	0.035 max.
Sulphur	S %	0.035 max.
Chromium	Cr %	0.500 - 0.700
Nickel	Ni %	0.300 max.
Molybdenum	Mo %	0.400 - 0.600
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Annealing or Hardening + Tempering

Mechanical Properties	
Tensile Strength in Mpa	485 min.
Yield Strength in Mpa	245 min.
Elongation in %	18 min.
Reduction of Area in %	-
Hardness in HB	175 min.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
12 MCh	GOST	Russia	Steel
J12540	UNS	USA	Casting
STE 285	DIN	Germany	Tube
TS 15 CD 2-05	AFNOR NF	France	Tube
XF 400	AS	Australia	Flat
XF 500	AS	Australia	Flat
A356 5	ASTM	USA	Casting

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