

# Material: PN 1H18N9

## Standard Specification for Steel Castings for General Engineering Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** PN 1H18N9 Steel Castings for General Engineering Purposes

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

**Grade Belongs to the Industry:** Casting

Chemical Composition		
Carbon	C %	0.120 max.
Silicon	Si %	0.800 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	17.000 - 19.000
Nickel	Ni %	8.000 - 10.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As Cast or Annealing or Normalizing or Hardening and Tempering

Mechanical Properties	
Tensile Strength in Mpa	480 min.
Yield Strength in Mpa	200 min.
Elongation in %	20 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
302C25	BS	British	Casting
2074/H5B	AS	Australia	Casting
2074/H5BM	AS	Australia	Casting
17 241	CSN	Czech Republic	Casting
Z 10 CN 18.9 M	AFNOR NF	France	Casting
C47H	ISO	International	Casting
10H18N9L	GOST	Russia	Casting

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