

Material: EN P 420 NH

Standard Specification for Steel Forgings for Pressure Purposes

Group: Ferrous Mild Steel Alloys

Sub Group: EN P 420 NH Steel Forgings for Pressure Purposes

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

Grade Belongs to the Industry: Forging

Chemical Composition			Heat Treatment	
Carbon	C %	0.200 max.	Annealing or Normalizing or Hardening + Tempering	
Silicon	Si %	0.600 Max.		
Manganese	Mn %	1.000 - 1.700		
Phosphorus	P %	0.025 max.		
Sulphur	S %	0.010 max.		
Chromium	Cr %	0.030 max.		
Nickel	Ni %	0.800 max.		
Molybdenum	Mo %	0.010 max.		
Copper	Cu %	0.300 max.	Mechanical Properties	
Vanadium	V %	0.200 max.	Tensile Strength in Mpa	490 - 690
Niobium	Nb %	0.050 max.	Yield Strength in Mpa	340 min.
Aluminium	Al %	0.020 Min.	Elongation in %	19 min.
Nitrogen	N %	0.020 max.	Reduction of Area in %	-
Iron	Fe %	Balance	Hardness in BHN	-
-	-	-	Impact in Joule	40 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
SA-487 Garde 16A	ASME	USA	Casting
1.6222	DIN	Germany	Steel
1.8932	EN	European Union	Forging
E 460 DD	JIS	Japan	Plate
J31200	UNS	USA	Casting
9 NiMn 5	DIN	Germany	Steel
A487 16A	ASTM	USA	Casting

Disclaimer: All information displayed in our data sheets are for reference purpose only and are sole property of their respective owners. Information and or material are used for educational purposes only. Data at actual may vary at actual and case to case basis. ICAST Alloys LLP does not guarantee validity of these parameters. Warranties and liabilities are exclusive to our terms and conditions of business.

Customer Care: +91-99090 45075 Email: info@icastllp.com