



## Material - PN LH 18 N 9

### Standard Specification for Corrosion-Resisting Cast Steel

Group - Ferrous Stainless Steel Alloys

Sub Group - PN LH 18 N 9 Corrosion-Resisting 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 max.	Solution Annealing	
Silicon	Si %	2.000 max.		
Manganese	Mn %	0.200 max.		
Phosphorus	P %	0.035 max.		
Sulphur	S %	0.035 max.		
Chromium	Cr %	17.000 - 19.000		
Nickel	Ni %	8.000 - 11.000		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	440 - 640
-	-	-	Yield Strength in Mpa	180 min.
-	-	-	Elongation in %	30 min.
-	-	-	Reduction of Area in %	40 min.
-	-	-	Hardness in BHN	130 - 190
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
302 C 25	BS	British	Casting
SCS 12	JIS	Japan	Casting
10 ch 18 N9L	GOST	Russia	Casting
Z 10 Cn 18.9M	AFNOR NF	France	Casting
F.8411	UNE	Spain	Casting
302 C 25	BS	British	Casting
A743 CF16F	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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