



Material - DIN G X 7 CrNiMoCuNb 18-18

Standard Specification for Stainless Steels Castings

Group - Ferrous Stainless Steel Alloys

Sub Group - DIN G X 7 CrNiMoCuNb 18-18 Stainless Steels Castings

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.080 max.		
Silicon	Si %	1.500 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.045 max.	Solution Annealing	
Sulphur	S %	0.030 max.		
Chromium	Cr %	16.500 - 18.500		
Nickel	Ni %	19.000 - 21.000		
Molybdenum	Mo %	2.000 - 2.500		-
Copper	Cu %	1.800 - 2.400	Mechanical Properties	
Niobium	Nb %	> 8 x %C	Tensile Strength in Mpa	441.3 - 637.4
Iron	Fe %	Balance	Yield Strength in Mpa	176.5 min.
-	-	-	Elongation in %	15 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in HB	130-180
-	-	-	Impac <mark>t in Joule</mark>	-

Cross Reference Table				
Material	Standard	Country	Grade Belong to the Industry	
1.4585	DIN	Germany	Casting	
J94651	UNS	USA	Casting	
Ao X 10 CrNiMoCuNb 18-18	MSZ	Hungary	Casting	
SA-351 CN3MN	ASME	USA	Casting	
A351 CN3MN	ASTM	USA	Casting	
A743 CN3MN	ASTM	USA	Casting	
A744 CN3MN	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

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