

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		
Carbon	C %	0.080 max.
Silicon	Si %	1.500 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.045 max.
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
Niobium	Nb %	> 8 x %C
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
	Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	441.3 - 637.4
Yield Strength in Mpa	176.5 min.
Elongation in %	15 min.
Reduction of Area in %	-
Hardness in HB	130-180
Impact in Joule	-

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

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



+91-99090 45075



info@icastllp.com



ICAST ALLOYS LLP, Plot 2527, Road H1, Kranti Gate, GIDC Metoda, Lodhika, Rajkot-360021, Gujarat, India