

Material: DIN 1.4585

Standard Specification for Stain Steels Casting

Group: Ferrous Stainless Steel Alloys

Sub Group: DIN 1.4585 Stain Steels Casting

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 - 1.000
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
SA-351 CN3MN	ASME	USA	Casting
J94651	UNS	USA	Casting
Ao X 10 CrNiMoCuNb 18-18	MSZ	Hungary	Casting
G X 7 CrNiMoCuNb 18-18	DIN	Germany	Casting
A351 CN3MN	ASTM	USA	Casting
A743 CN3MN	ASTM	USA	Casting
A744 CN3MN	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



+91-99090 45075



info@icastllp.com



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