



## Material - MSZ Ao X 10 CrNiMoCuNb 18-18

### Standard Specification for Steel Casting

Group - Ferrous Stainless Steel Alloys

Sub Group - MSZ Ao X 10 CrNiMoCuNb 18-18 Steel Casting

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

Grade Belongs to the Industry - Casting

Chemical Composition			Heat Treatment	
Carbon	C %	0.120 max.	Solution Annealing	
Silicon	Si %	1.500 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.030 max.		
Chromium	Cr %	17.000 - 19.000		
Nickel	Ni %	17.000 - 19.000		
Molybdenum	Mo %	2.500 - 3.500		
Copper	Cu %	1.800 - 2.300		
Niobium	Nb %	8xC < Nb < 1.1%		
Iron	Fe %	Balance	<b>Mechanical Properties</b> Tensile Strength in Mpa   550 min. Yield Strength in Mpa   260 min. Elongation in %   35 min. Reduction of Area in %   - Hardness in BHN   - Impact in Joule   -	
-	-	-		
-	-	-		
-	-	-		
-	-	-		
-	-	-		

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4585	DIN	Germany	Casting
J94651	UNS	USA	Casting
SA-351 CN3MN	ASME	USA	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

**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)**

All information in our data sheets and website is indicative only and is not intended to be a substitute for the full specification from which it is extracted. It is intended to provide typical values to allow comparison between metal alloy option rather than a definitive statement of mechanical performance or suitability for a particular application as these will vary with temperature, product type and product application. It is presented apart from contractual obligations and does not constitute any guarantee of properties or of processing or application possibilities in individual cases. Our warranties and liabilities are stated exclusively in our terms of business.