

Material: MSZ 1.4581

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: MSZ 1.4581 Steel Castings for Pressure Purposes

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.070 max.
Silicon	Si %	1.500 max.
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.030 max.
Chromium	Cr %	18.000 - 20.000
Molybdenum	Mo %	2.000 - 2.500
Nickel	Ni %	9.000 - 12.000
Copper	Cu %	0.500 max.
Nb + Ta	Nb % + Ta %	1.000 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Normalizing or Quenching or Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	440 - 640
Yield Strength in Mpa	185 min.
Elongation in %	25 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	40 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
GX5CrNiMo19-11-2	BS	British	Plate, Tubes and Forging
1.4581	ISO	International	Casting
1.4581	UNI	Italy	Casting
1.4581	PN	Poland	Casting
1.4581	UNE	Spain	Casting
1.4581	SS	Sweden	Casting
1.4581	BDS	Bulgaria	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