

Material: AISI 304

Standard Specification for Castings, Iron-Chromium-Nickel, Corrosion Resistant, for General Application

Group: Ferrous Stainless Steel Alloys

Sub Group: AISI 304 Castings, Iron-Chromium-Nickel, Corrosion Resistant, for General Application

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 %	2.000 max.
Manganese	Mn %	1.500 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.040 max.
Chromium	Cr %	18.000 - 21.000
Nickel	Ni %	8.000 - 11.000
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	485 - 2450
Yield Strength in Mpa	250 min.
Elongation in %	5 min.
Reduction of Area in %	35 min.
Hardness in HB	201 max.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4308	DIN	Germany	Casting
1.4301	EN	European Union	Forging
304 S11	BS	British	Bright Bars, Hot Rolled and Cold Rolled, Coil
SUS 304	JIS	Japan	Hot Rolled Equal Leg Angles
08CH18N10	GOST	Russia	Pipes, Fittings, Bar, Sheet and Forging
A743 CF8	ASTM	USA	Casting
A351 CF8	ASTM	USA	Casting

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