

Material: BS 10213 EN 1.4309

Standard Specification for Steel Castings for Pressure Purposes

Group: Ferrous Stainless Steel Alloys

Sub Group: BS 10213 Steel Castings for Pressure Purposes

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

Belongs to the Industry: Casting

Chemical Composition			Heat Treatment															
Carbon	C %	0.030 max.	Solution Annealing															
Silicon	Si %	1.500 max.																
Manganese	Mn %	2.000 max.																
Phosphorus	P %	0.035 max.																
Sulphur	S %	0.025 max.																
Chromium	Cr %	18.000 - 20.000																
Nickel	Ni %	9.000 - 12.000																
Copper	Cu %	0.500 max.																
Nitrogen	N %	0.200 max.																
Iron	Fe %	Balance																
-	-	-	<table border="1"> <thead> <tr> <th colspan="2">Mechanical Properties</th> </tr> </thead> <tbody> <tr> <td>Tensile Strength in Mpa</td> <td>440 - 640</td> </tr> <tr> <td>Yield Strength in Mpa</td> <td>210 min.</td> </tr> <tr> <td>Elongation in %</td> <td>30 min.</td> </tr> <tr> <td>Reduction of Area in %</td> <td>-</td> </tr> <tr> <td>Hardness in BHN</td> <td>-</td> </tr> <tr> <td>Impact in Joule</td> <td>70 min. @ -196°C</td> </tr> </tbody> </table>		Mechanical Properties		Tensile Strength in Mpa	440 - 640	Yield Strength in Mpa	210 min.	Elongation in %	30 min.	Reduction of Area in %	-	Hardness in BHN	-	Impact in Joule	70 min. @ -196°C
Mechanical Properties																		
Tensile Strength in Mpa	440 - 640																	
Yield Strength in Mpa	210 min.																	
Elongation in %	30 min.																	
Reduction of Area in %	-																	
Hardness in BHN	-																	
Impact in Joule	70 min. @ -196°C																	
-	-	-																
-	-	-																
-	-	-																
-	-	-																
-	-	-																
-	-	-																

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
A743 CF3	ASTM	USA	Casting
304L	AISI	USA	Bar, Wire, Strip, Slit, Plate, Sheet and Forging
1.4306	BS	British	Cold Rolled, Strips, Slit Coils and Sheets
1.4307	EN	European Union	Rod, Bars, Wire and Forging
304 S 11	BS	British	Bright Bars, Hot Rolled and Cold Rolled Coil
SUS 304L	JIS	Japan	Hot Rolled Equal Leg Angles
04CH18N10	GOST	Russia	Pipes, Fittings, Bar, Sheet and Forging

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