

Material: JIS SCS 12

Standard Specification for Austenitic Stainless Steel Castings for General Application

Group: Ferrous Stainless Steel Alloys

Sub Group: JIS SCS 12 Austenitic Stainless Steel Castings for General Application

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

Grade Belongs to the Industry: Casting

Chemical Composition		
Carbon	C %	0.200 max.
Silicon	Si %	2.000 max.
Manganese	Mn %	2.000 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	480 min.
Yield Strength in Mpa	205 min.
Elongation in %	28 min.
Reduction of Area in %	-
Hardness in BHN	183 max.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
302 C 25	BS	British	Casting
302 C 25	BS	British	Casting
10 ch 18 N9L	GOST	Russia	Casting
Z 10 Cn 18.9M	AFNOR NF	France	Casting
F.8411	UNE	Spain	Casting
LH 18 N 9	PN	Poland	Casting
A743 CF16F	ASTM	USA	Casting

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