

## 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			Heat Treatment	
Carbon	C %	0.200 max.	Solution Annealing	
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		
-	-	-	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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Customer Care: +91-99090 45075 Email: [info@icastllp.com](mailto:info@icastllp.com)