

## Material: BS 3100 Grade 304C12

### Standard Specification for Steel Castings for General Engineering Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** BS 3100 Grade 304C12 Steel Castings for General Engineering 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.	As Cast or Annealing or Normalizing or Hardening and Tempering	
Silicon	Si %	1.500 max.		
Manganese	Mn %	2.000 max.		
Phosphorus	P %	0.040 max.		
Sulphur	S %	0.040 max.		
Chromium	Cr %	17.000 - 21.000		
Nickel	Ni %	8.000 - 12.000		
Iron	Fe %	Balance		
-	-	-	Mechanical Properties	
-	-	-	Tensile Strength in Mpa	430 min.
-	-	-	Yield Strength in Mpa	215 min.
-	-	-	Elongation in %	26 min.
-	-	-	Reduction of Area in %	-
-	-	-	Hardness in BHN	-
-	-	-	Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
Z 2 CN 18-10 M	AFNOR NF	France	Casting
304 C 12 LT 196	BS	British	Casting
1.4309	ONORM	Australia	Casting
1.4309	UNE	Spain	Casting
1.4309	MSZ	Hungary	Casting
1.4309	SS	Sweden	Casting
1.4309	UNI	Italy	Casting

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