

# Material: MSZ 1.4309

## Standard Specification for Steel Castings for General Engineering Purposes

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** MSZ 1.4309 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		
Carbon	C %	0.030 max.
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
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
As Cast or Annealing or Normalizing or Hardening and Tempering

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	80 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
304C12	BS	British	Casting
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	SS	Sweden	Casting
1.4309	UNI	Italy	Casting

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