

## Material: EN 1.4301

### Standard Specification for Castings, Iron-Chromium-Nickel, Corrosion Resistant, for General Application

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** EN 1.4301 Castings, Iron-Chromium-Nickel, Corrosion Resistant, for General Application

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

**Grade Belongs to the Industry:** Casting

Chemical Composition		
Carbon	C %	0.070 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	17.500 - 19.500
Nickel	Ni %	8.000 - 10.500
Nitrogen	N %	0.100 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Solution Annealing	

Mechanical Properties	
Tensile Strength in Mpa	500 - 2300
Yield Strength in Mpa	225 min.
Elongation in %	1 min.
Reduction of Area in %	-
Hardness in BHN	-
Impact in Joule	60 J @ RT

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
1.4308	DIN	Germany	Casting
304	AISI	USA	Bar, Wire, Strip, Plat, Sheet and Forging
304 S11	BS	British	Bright Bars, Hot Rolled and Cold Rolled, Coil
SUS 304	JIS	Japan	Hot Rolled Equal Leg Angles
08CH18N10	GOST	Russia	Pipes, Fittings, Bar, Sheet and Forging
A743 CF8	ASTM	USA	Casting
A351 CF8	ASTM	USA	Casting

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