Material: EN 1.4307

Standard Specification for Iron-Chromium-Nickel, Rod, Bar, Wire and Forging

Group: *Ferrous Stainless Steel Alloys*
Sub Group: *EN 1.4307 Iron-Chromium-Nickel, Rod, Bar, Wire and Forging*
Application: *Intended for Valve, Pump, General Engineering, Automotive and Other Industries*
Grade Belongs to the Industry: *Rod, Bar, Wire and Forging*

Chemical Composition		
Carbon	C %	0.030 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.040 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	17.500 - 19.500
Nickel	Ni %	8.000 - 10.000
Nitrogen	N %	0.110 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment
Solution Annealing

Mechanical Properties	
Tensile Strength in Mpa	450 - 2100
Yield Strength in Mpa	175 min.
Elongation in %	12 min.
Reduction of Area in %	63 min.
Hardness in HB	215 max.
Impact in Joule	60 @ RT

Cross Reference Table			
Material	**Standard**	**Country**	**Grade Belong to the Industry**
304 S11	BS	British	Bright Bars, Hot Rolled and Cold Rolled, Coil
SUS 304L	JIS	Japan	Hot Rolled Equal Leg Angles
04CH 18N10	GOST	Russia	Pipes, Fittings, Bar, Sheet and Forging
304L	AISI	USA	Bar, Wire, Strip, Plat, Sheet and Forging
1.4306	DIN	Germany	Cold Rolled, Strips, Slit, Coils and Forging
A743 CF3	ASTM	USA	Casting
A351 CF3	ASTM	USA	Casting

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