

# Material: EN 1.4833

## Standard Specification for Iron-Chromium-Nickel, Hot or Cold Rolled, Sheet, Plate, Strip, Bar and Rods

**Group:** Ferrous Stainless Steel Alloys

**Sub Group:** EN 1.4833 Iron-Chromium-Nickel, Hot or Cold Rolled, Sheet, Plate, Strip, Bar and Rods

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

**Grade Belongs to the Industry:** Hot or Cold Rolled, Sheet, Plate, Strip, Bar and Rods

Chemical Composition		
Carbon	C %	1.500 max.
Silicon	Si %	1.000 max.
Manganese	Mn %	2.000 max.
Phosphorus	P %	0.045 max.
Sulphur	S %	0.015 max.
Chromium	Cr %	22.000 - 24.000
Nickel	Ni %	12.000 - 14.000
Nitrogen	N %	0.100 max.
Iron	Fe %	Balance
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-
-	-	-

Heat Treatment	
Solution Annealing	

Mechanical Properties	
Tensile Strength in Mpa	500 - 700
Yield Strength in Mpa	210 min.
Elongation in %	33 min.
Reduction of Area in %	-
Hardness in HB	192 max.
Impact in Joule	-

Cross Reference Table			
Material	Standard	Country	Grade Belong to the Industry
309	SAE	USA	Bar, Wire, Shapes and Forging
SUH 309	JIS	Japan	Bar, Sheet, Strip and Coil
X 16 CrNi 23-14	UNI	Italy	Plate, Sheet, Strip and Coil
SA-351 Grade CH20	ASME	USA	Casting
X 15 CrNi 24-13	AFNOR NF	France	Rolled Tubes for Pressure Service
A743 CH20	ASTM	USA	Casting
A351 CH20	ASTM	USA	Casting

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