

Stainless Steel Standards

Standards	304	304L	310	
USA-ASTM/AISI	304	304L	310	
GOST	08Ch18N10	03Ch18N11	20Ch23N18	08
BRD-W.NR./DIN	1.4301	1.4306	1.4845(1.4841	
IT-UNI	X5CrNi1810	X2CrNi1911	X12CrNi2521	X50
FR-AFNOR	Z7CN18-09	Z3CN19-121	Z7CND17-12-02	Z30
Chemical composition - %				
C (max)	0.08	0.03	0.25	
Si (max)	1	1	1.5	
Mn (max)	2	2	2	
P (max)	0.045	0.045	0.045	
S (max)	0.03	0.03	0.03	
Cr	17.0-20.0	18.0-20.0	24.0-26.0	
Ni	8.0-10.5	8.0-12.5	19.0-22.5	
Other	-	-		M
Physical and Mechanical characteristics				
Tensile strenght, RmPa M	500-700	460-680	500-700	
Yield strenght.,Re/min/ MPa	195	180	210	
Elongation, min %A5	45	45	35	
Thermal Expansion,10-6K ⁻¹ 6.0/100C° 19.0/800 C°16.0/100C° 19.0/800 C°17.0/400C° 19.0/1000 C°16.5/1000 C°				
Hardness, HB 30	130-180	120-180	192	
Conductivity, W.mm ² /m	0.73	0.73	0.85	
Heat Conductivity, W/K.m	15	15	14	

Permanence

1003

1003

1010

- The above tables is given as guide only.
- Many factors can influents the extent of corrosion (type of solution, concentration, temperature, presens of impurities, etc.).