

HM Wire International, Inc.

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Stainless Steel Alloy - Chemical Composition

The following information is to be used as a guideline only.

Non Chemical Compositions for Stainless Steel										
Alloy	Ni	Cr	C	Mn	Fe	S	Si	P	Mo	Other
302	8.0/10.0	7.0/19.0	0.15	2.0	Bal.	0.030	1.0	0.40	0.75	N .10
304	8.0/10.5	8.0/20.0	0.08	2.0	Bal.	0.030	1.0	0.40	-	N .10
304L	8.0/12.0	8.0/20.0	0.03	2.0	Bal.	0.030	1.0	0.40	-	-
305	10.0/13.0	17.0/19.0	0.12	2.0	-	0.030	1.0	0.40	-	-
308	10.0/12.0	19.0/21.0	0.08	2.0	-	0.030	1.0	0.40	-	-
309	12.0/15.0	22.0/24.0	0.20	2.0	-	0.030	1.0	0.40	-	-
310	19.0/22.0	24.0/26.0	0.25	2.0	-	0.030	1.5	0.40	-	-
314	19.0/22.0	23.0/26.0	0.25	2.0	-	0.030	1.5/3.0	0.40	-	-
316	10.0/14.0	6.0/18.0	0.08	2.0	Bal.	0.030	1.0	0.40	2.0/3.0	N .10
316L	10.0/14.0	6.0/18.0	0.03	2.0	Bal.	0.030	1.0	0.40	2.0/3.0	N .10
317	11.0/15.0	18.0/20.0	0.08	2.0	-	0.030	1.0	0.40	3.0/4.0	-
321	9.0/12.0	17.0/19.0	0.08	2.0	-	0.030	1.0	0.40	-	Ti
330	35.0/37.0	14.0/16.0	0.25	-	-	-	-	-	-	-
347	9.0/13.0	17.0/19.0	0.08	2.0	-	0.030	1.0	0.40	-	Cb + Ti
410	-	11.5/13.5	0.15	1.0	-	0.030	1.0	0.40	-	-
430	-	14.0/18.0	0.12	1.0	-	0.030	1.0	0.40	-	-

Alloy	Characteristics	Typical Specifications	NOM. Tensile Strength	
			Annealed	Full Hard
Type 302	Higher Carbon content for greater strength	AMS5866 – ASTM A 313	105,000- 145,000	300,000- 360,000
Type 304	Good corrosion resistance and strength	ASTM A 580 – ASTM A 313	105,000- 145,000	300,000- 360,000
Type 304L	Low carbon content	ASTM A 580 – ASTM A 240		
Type 316	Superior corrosion resistance	ASTM A 580 – ASTM A 313	95,000- 130,000	245,000- 275,000
Type 316L	Superior resistance to intergranular corrosion	ASTM A 580 – ASTM A 240		

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