



MATERIALI MATERIAL

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ASTM Specifications		COMPOSIZIONE CHIMICA % - CHEMICAL REQUIREMENTS %									
A 240		UNS. Designazione	C	Mn max	P max	S max	Si max	Ni	Cr	Mo	V max.
TIPO - TYPE		Designation									
ACCIAI INOSSIDABILI STAINLESS STEELS	304	S 30400	0.08 max.	2.00	0.045	0.030	1.00	8.00-10.50	18.00-20.00	-	N 0.10 max.
	304 L	S 30403	0.030 max.	2.00	0.045	0.030	1.00	8.00-12.00	18.00-20.00	-	N 0.10 max.
	309 S	S 30908	0.08 max.	2.00	0.045	0.030	1.00	12.00-15.00	22.00-24.00	-	
	310 S	S 31008	0.08 max.	2.00	0.045	0.030	1.50	19.00-22.00	24.00-26.00	-	
	316	S 31600	0.08 max.	2.00	0.045	0.030	1.00	10.00-14.00	16.00-18.00	2.00-3.00	N 0.10 max.
	316 L	S 31603	0.030 max.	2.00	0.045	0.030	1.00	10.00-14.00	16.00-18.00	2.00-3.00	N 0.10 max.
	317	S 31700	0.08 max.	2.00	0.045	0.030	1.00	11.00-15.00	18.00-20.00	3.00-4.00	N 0.10 max.
	317 L	S 31703	0.030 max.	2.00	0.045	0.030	1.00	11.00-15.00	18.00-20.00	3.00-4.00	N 0.10 max.
	321	S 32100	0.08 max.	2.00	0.045	0.030	1.00	9.00-12.00	17.00-19.00	-	Ti 5xC min. - 0.70 max.
	321 H	S 32109	0.04-0.10	2.00	0.045	0.030	1.00	9.00-12.00	17.00-19.00	-	Ti 4xC min. - 0.70 max.
	347	S 34700	0.08 max.	2.00	0.045	0.030	1.00	9.00-13.00	17.00-19.00	-	Cb + Ta 10xC min. - 1.10 max.
	347 H	S 34709	0.04-0.10	2.00	0.045	0.030	1.00	9.00-13.00	17.00-19.00	-	Cb + Ta 8xC min. - 1.00 max.
	348	S 34800	0.08 max.	2.00	0.045	0.030	1.00	9.00-13.00	17.00-19.00	-	* Cb + Ta 10xC min. - 1.10 max.
	348 H	S 34809	0.04-0.10	2.00	0.045	0.030	1.00	9.00-13.00	17.00-19.00	-	* Cb + Ta 8xC min. - 1.00 max.

* Ta 0.10 max - Co 0.20 max

CARATTERISTICHE FISICHE - TENSILE AND HARDNESS REQUIREMENTS

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ASTM Specifications			R min.	TENSILE STRENGTH	S min. 0.2%	YIELD STRENGTH min. 0.2% offset	ALLUNG. ELONGAT. in 2" min. %	CONTRAZ. REDUCTION OF AREA %	DUREZZA - HARDNESS			
SPECIFIC.	CLASSE CLASS	GRADO O SIMBOLO GRADE OR SYMBOL							BRINELL		ROCKWELL B scale	
									min.	max.	min.	max.
A105	-	-	483	70	248	36	22	30	-	187	-	-
A181	CLASS 60	-	415	60	207	30	22	35				
	CLASS 70	-	483	70	250	36	18	24				
A350	-	LF1	415-586	60-85	207	30	25	38				
		LF2	483-655	70-95	250	36	22	30				
		LF3	483-655	70-95	259	36.5	22	35				
A182	-	F1	483	70	276	40	25	35	143	192		
		F2	483	70	276	40	20	30	143	192		
		F5a	621	90	448	65	22	50	187	248		
		F6a	483	70	276	40	18	35	143	187		
		F9	586	85	379	55	20	40	179	217		
		F11	483	70	276	40	20	30	143	207		
		F12	483	70	276	40	20	30	143	207		
A182	-	F22	517	75	310	45	20	30	156	207		
		F304 - F304H	517	75	207	30	30	50				
		F304 L	483	70	172	25	30	50				
		F310 - F316	517	75	207	30	30	50				
		F316H	483	70	172	25	30	50				
		F316L	483	70	172	25	30	50				
		F321 - F321H	517	75	207	30	30	50				
F347 - F347H	517	75	207	30	30	50						
F348 - F348H	517	75	207	30	30	50						
F10	552	80	207	30	30	50						

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A515		60	415-552	60-80	220	32	25					
		70	483-621	70-90	260	38	21					
A516		70	483-621	70-90	260	38	21					
A537	CLASS 1	-	483-621	70-90	345	50	22					
		(10)	448-586	65-85	310	45	22					
A203	-	B, E	483-621	70-90	276	40	21					
A204		A	448-586	65-85	255	37	23					
		B	483-621	70-90	276	40	21					
		C	517-655	75-95	295	43	20					
A387		11	415-586	60-85	241	35	22	-				
		22	415-586	60-85	207	30	18	45				
TIPO - TYPE												
A240	-	304	517	75	207	30	40	-	183	-	88	
		304L	483	70	172	25	40	-	183	-	88	
		309S, 310S, 316	517	75	207	30	40	-	217	-	95	
		316L	483	70	172	25	40	-	217	-	95	
		317	517	75	207	30	35	-	217	-	95	
		321, 321H, 347	517	75	207	30	40	-	183	-	88	
347H, 348, 348H												

(1) Spessore - Thick. $\leq 2\ 1/2"$ (2) Spessore - Thick. $> 2\ 1/2"$ + 4"