

STRUCTURE

## INOXFIL

AUSTENITIC

European Standard EN 10088		ASTM	Code	CHEMICAL COMPOSITION												APPLICATIONS
Steel Code	Designation	AISI	IF	C	Si	Mn	P	S	Cr	Ni	Mo	Ti	N <sub>2</sub>	Cu		
1.4305	X8CrNiS18-9	303	155	≤ 0,10	≤ 0,75	1,50-2,00	≤ 0,040	0,28-0,35	17,00-19,00	8,50-9,50	≤ 0,60	---	---	---	Free machining	
1.4570	X6CrNiCuS18-9-2	303 Cu	165	≤ 0,080	≤ 0,75	1,50-2,00	≤ 0,040	0,28-0,35	17,00-19,00	8,00-10,00	≤ 0,60	---	---	1,40-1,80	Free machining	
1.4310	X10CrNi18-8	302	145	≤ 0,080	≤ 0,75	≤ 2,00	≤ 0,045	≤ 0,030	17,00-19,00	8,50-9,50	≤ 0,60	---	≤ 500	---	Spring, Ropes	
---	---	(204 Cu)	120	≤ 0,080	≤ 1,00	7,00-8,50	≤ 0,040	≤ 0,030	16,00-17,00	1,00-2,00	---	---	≤ 2500	2,50-3,50	General purpose	
1.4310	X10CrNi18-8	302	113	≤ 0,080	≤ 0,75	≤ 2,00	≤ 0,040	≤ 0,030	18,00-19,00	8,00-9,00	---	---	---	---	Screws	
1.4305	X8CrNiS18-9	303	195	≤ 0,10	≤ 0,75	1,50-2,00	≤ 0,040	0,28-0,35	17,00-19,00	8,50-9,50	≤ 0,60	---	---	---	Free machining	
1.4310	X10CrNi18-8	304	132	≤ 0,070	≤ 0,75	≤ 2,00	≤ 0,040	≤ 0,030	17,00-19,50	8,00-10,50	---	---	---	---	General purpose	
1.4301	X5CrNi18-10	304	141	≤ 0,060	≤ 0,75	≤ 2,00	≤ 0,040	≤ 0,030	18,00-19,00	8,50-9,50	---	---	---	---	Bicycle spokes / Water screens	
1.4307	X2CrNi18-9	304 L	142	≤ 0,030	≤ 0,75	≤ 2,00	≤ 0,040	≤ 0,030	18,00-19,00	8,50-9,50	---	---	---	---	Nails, General purpose	
1.4307	X2CrNi18-9	304 L	182	≤ 0,030	≤ 0,75	≤ 2,00	≤ 0,040	≤ 0,030	17,50-19,50	9,00-10,00	---	---	---	---	General purpose, Weaving wire, Ball wearings	
1.4307	X2CrNi18-9	304 L	200	≤ 0,030	≤ 0,75	≤ 2,00	≤ 0,040	≤ 0,030	17,50-19,50	9,50-10,50	---	---	---	---	General purpose	
1.4306	X2CrNi19-11	304 L	205	≤ 0,030	≤ 0,75	≤ 2,00	≤ 0,040	≤ 0,030	18,00-20,00	10,00-11,00	---	---	---	---	Weaving wire	
1.4306	X2CrNi19-11	305	215	≤ 0,030	≤ 0,75	≤ 2,00	≤ 0,040	≤ 0,030	18,00-19,00	10,50-13,00	---	---	---	---	Weaving wire	
1.4567	X3CrNiCu18-9-4	304 Cu	493	≤ 0,030	≤ 0,75	≤ 2,00	≤ 0,040	≤ 0,030	17,00-19,00	8,00-9,00	---	---	---	3,00-4,00	Vineyards	
1.4567	X3CrNiCu18-9-4	304 Cu	495	≤ 0,030	≤ 0,75	≤ 2,00	≤ 0,040	≤ 0,030	17,00-19,00	9,00-10,00	---	---	---	3,00-4,00	Screws, Agricultural applications	
1.4541	X6CrNiTi18-10	321	315	≤ 0,080	≤ 0,75	1,00-2,00	≤ 0,040	≤ 0,030	17,00-19,00	9,00-10,00	---	≥ 5(C+N)≤0,70	---	---	General purpose	
---	---	---	249	≤ 0,10	≤ 1,00	≤ 2,00	≤ 0,045	≤ 0,030	16,50-18,00	8,00-10,00	1,30-1,80	---	---	---	Fixing buildings, General purpose	
1.4401	X5CrNiMo17-12-2	316	250	≤ 0,080	≤ 0,75	1,25-2,00	≤ 0,040	≤ 0,030	16,00-18,00	10,00-11,00	2,00-2,50	---	---	---	Fixing buildings, General purpose	
1.4404	X2CrNiMo17-12-2	316 L	270	≤ 0,030	≤ 0,75	1,25-2,00	≤ 0,040	≤ 0,015	16,00-18,00	11,00-12,00	2,00-2,50	---	---	---	Weaving wire, Ball wearings	
1.4578	X3CrNiCuMo17-11-3-2	---	271	≤ 0,030	≤ 0,75	≤ 1,00	≤ 0,040	≤ 0,030	16,00-18,00	10,50-12,00	2,00-2,50	---	---	3,00-4,00	Springs	
1.4404	X2CrNiMo17-12-2	316 L	273	≤ 0,030	≤ 0,75	1,25-2,00	≤ 0,040	≤ 0,015	16,00-18,00	10,00-11,00	2,00-2,50	---	---	---	General purpose	
1.4432	X2CrNiMo17-12-3	316 L	277	≤ 0,030	≤ 0,75	1,50-2,00	≤ 0,040	0,02-0,03	16,00-18,00	11,00-12,00	2,50-3,00	---	---	---	General purpose	
1.4571	X6CrNiMoTi17-12-2	316 Ti	280	≤ 0,080	≤ 1,00	≤ 2,00	≤ 0,040	≤ 0,030	16,00-18,00	11,00-13,00	2,00-2,50	≥ 5(C+N)≤0,70	---	---	General purpose	
Refractory	1.4016	X6Cr17	310 S	220	≤ 0,080	≤ 1,50	≤ 2,00	≤ 0,045	≤ 0,030	24,00-26,00	19,00-22,00	---	---	---	---	Refraactory uses
	1.4841	X15CrNiSi25-21	314	300	≤ 0,15	1,50-3,00	≤ 2,00	≤ 0,045	≤ 0,030	24,00-26,00	19,00-21,00	---	---	---	---	Conveyor belts
Welding	---	19 9 L	ER308 L	616	≤ 0,020	0,30-0,65	1,00-2,50	≤ 0,025	≤ 0,030	19,50-22,00	9,00-11,00	≤ 0,50	---	≤ 0,20	---	TIG-MIG Welding
	---	19 12 3 L	ER316 L	630	≤ 0,025	0,30-0,65	1,00-2,50	≤ 0,025	≤ 0,030	18,00-20,00	11,00-14,00	2,50-3,00	---	≤ 0,20	---	TIG-MIG Welding
	---	---	---	740	≤ 0,020	0,30-0,65	1,00-2,50	≤ 0,020	≤ 0,030	19,50-22,00	9,00-11,00	≤ 0,50	---	---	---	Electrodes
	---	19 12 3 L	ER316 L	746	≤ 0,020	0,30-0,65	1,00-2,50	≤ 0,020	≤ 0,030	19,50-22,00	9,00-11,00	2,50-3,00	---	---	---	Electrodes
	---	19 9 L Si	ER308 LSi	716	≤ 0,020	0,65-1,00	1,00-2,50	≤ 0,025	≤ 0,030	19,50-22,00	9,00-11,00	≤ 0,50	---	≤ 0,20	---	TIG-MIG Welding
	---	19 12 3 L Si	ER316 LSi	730	≤ 0,025	0,65-1,00	1,00-2,50	≤ 0,025	≤ 0,030	18,00-20,00	11,00-14,00	2,50-3,00	---	≤ 0,20	---	TIG-MIG Welding
	---	---	---	770	≤ 0,19	≤ 0,95	5,60-7,90	≤ 0,025	≤ 0,020	17,20-19,80	7,60-9,40	---	---	---	---	MIG Welding
FERRITIC	1.4016	X6Cr17	430	500	≤ 0,080	≤ 1,00	≤ 1,00	≤ 0,040	≤ 0,030	16,00-18,00	≤ 0,75	---	---	---	---	General purpose
	1.4113	X6CrMo17-1	434	550	≤ 0,080	≤ 1,00	≤ 1,00	≤ 0,040	≤ 0,030	16,00-18,00	≤ 0,50	0,75-1,25	---	---	---	Car industry
	---	---	---	551	≤ 0,030	≤ 1,00	≤ 1,00	≤ 0,040	0,09-0,1	16,00-18,00	≤ 0,50	0,75-1,25	---	---	---	Car industry