

STRUCTURE	ROLDAN				CHEMICAL COMPOSITION (%)											APPLICATIONS	
	European Standard EN 10088			Code													
	Steel Code	Designation	AISI	RDN	C	Si	Mn	P	S	N2 (ppm)	Cr	Cu	Mo	Ni	Ti		
AUSTENITIC	Roldamax	1.4305	X8CrNiS18-9	303	155	≤ 0,10	≤ 0,75	1,50-2,00	≤ 0,040	0,28-0,35	≤ 1100	17,00-19,00	≤ 0,60	≤ 0,60	8,50-9,50	---	Free cutting
		1.4305	X8CrNiS18-9	303	195	≤ 0,10	≤ 0,75	1,50-2,00	≤ 0,040	0,20-0,30	≤ 1100	17,00-19,00	≤ 0,60	≤ 0,60	9,00-10,00	---	
		1.4570	X6CrNiCuS18-9-2	303 Cu	165	≤ 0,080	≤ 0,75	1,50-2,00	≤ 0,040	0,28-0,35	≤ 1100	17,00-19,00	1,40-1,80	≤ 0,60	8,00-10,00	---	
	1.4310	X10CrNi18-8	302	112	≤ 0,12	≤ 0,75	≤ 2,00	≤ 0,045	≤ 0,030	≤ 1100	17,00-19,00	---	≤ 0,60	8,00-10,00	---	Springs	
	1.4310	X10CrNi18-8	302	115	≤ 0,12	≤ 0,75	≤ 2,00	≤ 0,045	≤ 0,030	700-900	17,00-19,00	---	≤ 0,60	8,00-9,00	---		
	1.4310	X10CrNi18-8	304	130	≤ 0,080	≤ 0,75	≤ 2,00	≤ 0,045	≤ 0,030	≤ 1100	18,00-19,00	---	---	8,00-9,00	---		
	1.4310	X10CrNi18-8	302	145	≤ 0,080	≤ 0,75	≤ 2,00	≤ 0,045	≤ 0,030	≤ 500	17,00-19,00	---	≤ 0,60	8,50-9,50	---		
	1.4310	X10CrNi18-8	302	113	≤ 0,080	≤ 0,75	≤ 2,00	≤ 0,045	≤ 0,030	≤ 1100	18,00-19,00	---	---	8,00-9,00	---		
	1.4301	X5CrNi18-8	304	183	≤ 0,070	≤ 0,75	≤ 2,00	≤ 0,040	≤ 0,030	≤ 500	18,00-19,00	---	≤ 0,60	9,00-10,00	---	General Purpose	
	1.4301	X5CrNi18-8	304	141	≤ 0,070	≤ 0,75	≤ 2,00	≤ 0,040	≤ 0,030	≤ 1100	18,00-19,00	---	---	8,50-9,50	---		
	1.4541	X6CrNiTi18-10	321	315	≤ 0,080	≤ 0,75	≤ 2,00	≤ 0,040	≤ 0,030	---	17,00-19,00	---	---	9,00-10,00	≥ 5(C+N)≤0,70		
	Roldamax	1.4301	X5CrNi18-10	304	134	≤ 0,070	≤ 0,75	≤ 2,00	≤ 0,040	0,020-0,030	---	18,00-19,00	---	---	8,00-9,00	---	General Purpose, Improved Machinability
		1.4301	X5CrNi18-10	304	144	≤ 0,070	≤ 0,75	≤ 2,00	≤ 0,040	0,020-0,030	---	18,00-19,00	---	---	8,50-9,50	---	
		1.4307	X2CrNi18-9	304 L	143	≤ 0,030	≤ 0,75	≤ 2,00	≤ 0,040	0,020-0,030	---	18,00-19,00	---	---	8,50-9,50	---	
		1.4307	X2CrNi18-9	304 L	147	≤ 0,030	≤ 0,75	≤ 2,00	≤ 0,040	0,020-0,030	---	18,00-19,00	---	---	8,50-9,50	---	
		1.4307	X2CrNi18-9	---	148	≤ 0,030	≤ 0,75	≤ 2,00	≤ 0,040	0,020-0,030	---	17,50-18,00	---	---	8,00-8,50	---	
		1.4307	X2CrNi18-9	304 L	184	≤ 0,030	≤ 0,75	≤ 2,00	≤ 0,040	0,020-0,030	---	18,00-19,00	---	---	9,00-10,00	---	
		1.4567	X3CrNiCu18-9-4	304 Cu	494	≤ 0,030	≤ 0,75	≤ 2,00	≤ 0,040	0,020-0,030	---	17,00-19,00	3,00-4,00	---	8,50-10,00	---	
	1.4541	X6CrNiTi18-10	321	314	≤ 0,080	≤ 0,75	≤ 2,00	≤ 0,040	0,020-0,030	---	17,00-19,00	---	---	9,00-10,00	≥ 5(C+N)≤0,70		
	AUSTENITIC	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	---	General Purpose, Heading Quality
1.4307		X2CrNi18-9	304 L	180	≤ 0,030	≤ 0,75	≤ 2,00	≤ 0,040	≤ 0,030	---	18,00-20,00	---	---	9,00-10,00	---		
1.4307		X2CrNi18-9	304 L	200	≤ 0,030	≤ 0,75	≤ 2,00	≤ 0,040	≤ 0,030	---	18,00-20,00	---	---	9,50-10,50	---		
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	---		
1.4303		X4CrNi18-12	305	215	≤ 0,030	≤ 0,75	≤ 2,00	≤ 0,040	≤ 0,030	---	18,00-19,00	---	---	11,00-13,00	---	General Purpose, Improved Mechanical Properties	
1.4567		X3CrNiCu18-9-4	304 Cu	493	≤ 0,030	≤ 0,75	≤ 2,00	≤ 0,040	≤ 0,030	---	17,00-19,00	3,00-4,00	---	8,50-9,00	---		
1.4567		X3CrNiCu18-9-4	304 Cu	495	≤ 0,030	≤ 0,75	≤ 2,00	≤ 0,040	≤ 0,030	---	17,00-19,00	3,00-4,00	---	9,00-10,00	---		
1.4311		X2CrNi18-10	304 LN	146	≤ 0,030	≤ 0,75	≤ 2,00	≤ 0,040	≤ 0,030	1200-2200	17,00-19,00	---	---	8,50-9,50	---		
1.4401		X5CrNiMo17-12-2	316	250	≤ 0,070	≤ 0,75	≤ 2,00	≤ 0,040	≤ 0,030	---	16,50-18,00	---	2,00-2,50	10,00-11,00	---		
1.4404		X2CrNiMo17-12-2	316 L	270	≤ 0,030	≤ 0,75	≤ 2,00	≤ 0,040	≤ 0,030	---	16,50-18,00	---	2,00-2,50	11,00-13,00	---		
1.4404		X2CrNiMo17-12-2	316 L	273	≤ 0,030	≤ 0,75	≤ 2,00	≤ 0,040	≤ 0,030	---	16,50-18,00	---	2,00-2,50	10,00-11,00	---		
1.4429		X2CrNiMoN17-13-3	316 LN	279	≤ 0,030	≤ 0,75	≤ 2,00	≤ 0,040	≤ 0,030	1200-1600	16,50-18,00	---	2,50-3,00	11,00-14,00	---		
1.4578		X3CrNiCuMo17-11-3-2	---	271	≤ 0,030	≤ 0,75	≤ 2,00	≤ 0,040	≤ 0,015	---	16,50-18,00	3,00-3,50	2,00-2,50	10,50-12,00	---		
1.4571	X6CrNiMoTi17-12-2	316 Ti	280	≤ 0,080	≤ 0,75	≤ 2,00	≤ 0,040	≤ 0,030	---	16,50-18,00	---	2,00-2,50	11,00-13,00	≥ 5(C+N)≤0,70			
Roldamax	1.4401	X5CrNiMo17-12-2	316	254	≤ 0,070	≤ 0,75	≤ 2,00	≤ 0,040	0,020-0,030	---	16,50-18,00	---	2,00-2,50	10,00-11,00	---	General Purpose, High Machinability	
	1.4404	X2CrNiMo17-12-2	316 L	264	≤ 0,030	≤ 0,75	≤ 2,00	≤ 0,040	0,020-0,030	---	16,50-18,00	---	2,00-2,50	10,50-12,00	---		
	1.4404	X2CrNiMo17-12-2	316 L	274	≤ 0,030	≤ 0,75	≤ 2,00	≤ 0,040	0,020-0,030	---	16,50-18,00	---	2,00-2,50	11,00-12,00	---		
	1.4436	X3CrNiMo17-13-3	316	277	≤ 0,030	≤ 0,75	≤ 2,00	≤ 0,040	0,020-0,030	---	16,50-18,00	---	2,50-3,00	11,00-12,00	---		
	1.4571	X6CrNiMoTi17-12-2	316 Ti	284	≤ 0,080	≤ 0,75	≤ 2,00	≤ 0,040	0,020-0,030	---	16,50-18,00	---	2,00-2,50	11,00-13,00	≥ 5(C+N)≤0,70		
Duplex	1.4462	X2CrNiMoN22-5-3	2205	900	≤ 0,030	≤ 0,75	≤ 2,00	≤ 0,035	≤ 0,010	1000-2000	21,00-23,00	---	3,00-3,50	4,50-6,50	---	Corrosion Resistance	
FERRITIC	1.4016	X6Cr17	430	500	≤ 0,080	≤ 1,00	≤ 1,00	≤ 0,040	≤ 0,030	---	16,00-18,00	---	---	---	---	General Purpose	
	Roldamax	1.4104	X14CrMoS17	---	510	0,10 - 0,17	≤ 1,00	≤ 1,50	≤ 0,040	0,15-0,35	---	15,50-17,50	---	0,20-0,60	---	---	Free Cutting
		1.4105	X6CrMoS17	430 F	520	≤ 0,80	≤ 1,00	≤ 1,50	≤ 0,040	0,15-0,35	---	16,00-18,00	---	0,20-0,60	---	---	
	1.4113	X6CrMo17-1	434	550	≤ 0,080	≤ 1,00	≤ 1,00	≤ 0,040	≤ 0,030	---	16,00-18,00	---	0,90-1,40	---	---	General Purpose	
AUSTENITIC	1.4316	X2CrNi20-10-EN 144	---	240	≤ 0,020	≤ 0,15	1,00-2,00	≤ 0,030	≤ 0,030	---	19,50-22,00	≤ 0,50	≤ 0,50	9,00-11,00	---	Welding	
	1.4316	X2CrNi20-10-EN 144	308 LSi	241	≤ 0,020	0,65-1,00	,00-2,00	≤ 0,030	≤ 0,030	---	19,50-22,00	≤ 0,50	≤ 0,50	9,00-11,00	---		
	1.4316	X2CrNi20-10-EN 144	308 L	242	≤ 0,020	0,30-0,60	1,00-2,00	≤ 0,030	≤ 0,030	---	19,50-22,00	≤ 0,50	≤ 0,50	9,00-11,00	---		
	1.4430	X2CrNiMo19-13-3-EN 144	316 LSi	243	≤ 0,020	0,65-1,00	1,00-2,00	≤ 0,030	≤ 0,030	---	18,00-20,00	≤ 0,50	2,50-3,00	12,00-14,00	---		
	1.4370	X15CrNiMn18-8-EN 144	---	244	≤ 0,19	≤ 0,95	5,50-8,00	≤ 0,035	≤ 0,020	---	17,00-20,00	≤ 0,50	≤ 0,50	7,50-9,50	---		
	1.4430	X2CrNiMo19-13-3-EN 144	316 L	245	≤ 0,020	0,30-0,65	1,00-2,00	≤ 0,030	≤ 0,030	---	18,00-20,00	≤ 0,50	2,50-3,00	12,00-14,00	---		
	1.4430	---	316 L	246	≤ 0,020	≤ 0,15	,00-2,00	≤ 0,030	≤ 0,030	---	18,00-20,00	≤ 0,50	2,50-3,00	11,00-14,00	---		
	1.4597	---	204Cu	600	≤ 0,10	≤ 2,00	,50-8,50	≤ 0,040	≤ 0,003	0,15-0,30	16,00-18,00	2,00-3,50	≤ 1,00	< 2,00	---	General Purpose	
Refractory	1.4845	X8CrNi25-21	310S	220	≤ 0,080	≤ 1,50	≤ 2,00	≤ 0,045	≤ 0,015	≤ 0,11	24,00-26,00	---	---	19,00-22,00	---	High Temperature, Belts, Furnace	
	---	---	310	221	≤ 0,25	≤ 1,50	≤ 2,00	≤ 0,045	≤ 0,030	≤ 0,11	24,00-26,00	---	---	19,00-22,00	---		
	---	---	314	300	≤ 0,20	1,50-3,00	≤ 2,00	≤ 0,045	≤ 0,015	≤ 0,11	24,00-26,00	---	---	19,00-22,00	---		