



# ACERINOX

STRUCTURE

European Standard EN 10088

ASTM

Code

CHEMICAL COMPOSITION

APPLICATIONS

Steel Code Designation AISI ACX C Si Mn Pmax Smax Cr Ni Mo Ti OTHERS

AUSTENITIC	1.4310	X10CrNi18-8	301	110	0,05-0,15	≤ 1,00	≤ 2,00	0,045	0,015	16,00-18,00	6,00-8,00	---	---	---	Food industry, tableware, holloware
	1.4301	X5CrNi18-10	304	120	≤ 0,070	≤ 0,75	≤ 2,00	0,045	0,015	18,00-19,00	8,00-10,00	---	---	---	Food industry, tableware, holloware
	1.4301	X5CrNi18-10	304	140	≤ 0,070	≤ 0,75	≤ 2,00	0,045	0,015	17,50-19,00	8,00-10,00	---	---	---	Food industry, tableware, holloware
	1.4307	X2CrNi18-9	304 L	150	≤ 0,030	≤ 0,75	≤ 2,00	0,045	0,015	18,00-19,00	8,00-10,00	---	---	---	Tubers, boilers
	1.4301	X5CrNi18-10	304	160	≤ 0,070	≤ 0,75	≤ 2,00	0,045	0,015	18,00-19,00	8,50-10,00	---	---	---	Food industry, tableware, holloware
	1.4301	X5CrNi18-10	304 DDQ	180	≤ 0,070	≤ 0,75	≤ 2,00	0,045	0,015	17,50-19,00	8,50-10,00	---	---	---	Normal and deep drawing
	1.4307	X2CrNi18-9	304 L	200	≤ 0,030	≤ 0,75	≤ 2,00	0,045	0,015	18,00-19,00	8,50-10,00	---	---	---	Nuclear industry, tubes and boilers
	1.4404	X2CrNiMo17-12-2	316 L	240	≤ 0,030	≤ 0,75	≤ 2,00	0,045	0,015	16,50-18,00	10,00-13,00	2,0-2,5	---	---	Chemical industries
	1.4401	X5CrNiMo17-12-2	316	250	≤ 0,070	≤ 0,75	≤ 2,00	0,045	0,015	16,50-18,00	10,00-12,00	2,0-2,5	---	---	Chemical industries
	1.4432	X2CrNiMo17-12-3	316 L	260	≤ 0,030	≤ 0,75	≤ 2,00	0,045	0,015	16,50-18,00	10,50-13,00	2,5-3,0	---	---	Tubes, boilers
	1.4571	X6CrNiMoTi17-12-2	316 Ti	280	≤ 0,080	≤ 0,75	≤ 2,00	0,045	0,015	16,50-18,00	10,00-12,50	2,0-2,5	5(C+N)-0,70	---	Chemical and petrochemical industries
	1.4541	X6CrNiTi18-10	321	315	≤ 0,080	≤ 0,75	≤ 2,00	0,045	0,015	17,00-19,00	9,00-11,00	---	5(C+N)-0,70	---	Tubes, welded constructions
	1.4833	X12CrNi23-13	309 S	340	≤ 0,080	≤ 0,75	≤ 2,00	0,045	0,015	22,00-24,00	12,00-15,00	---	---	---	Electrical resistances
	1.4845	X8CrNi25-21	310 S	350	≤ 0,080	≤ 0,75	≤ 2,00	0,045	0,015	24,00-26,00	19,00-21,00	---	---	---	Furnaces, high temperature uses
FERRITIC	1.4000	X6Cr13	410 S	420	≤ 0,080	≤ 1,00	≤ 1,00	0,040	0,015	11,50-13,50	---	---	---	---	Petrochemical industries
	1.4016	X6Cr17	430	500	≤ 0,080	≤ 1,00	≤ 1,00	0,040	0,015	16,00-18,00	---	---	---	---	Tableware, holloware, interior decor applications
	1.4510	X3CrTi17	430 Ti	515	≤ 0,050	≤ 1,00	≤ 1,00	0,040	0,015	16,00-18,00	---	---	0,15+4(C+N)-0,80	---	Washing machines, tubes
	1.4511	X3CrNb17	430 Nb	525	≤ 0,050	≤ 1,00	≤ 1,00	0,040	0,015	16,00-18,00	---	---	---	Nb=0,3-0,6	Holloware bonding, washing machines
	1.4113	X6CrMo17-1	434	535	≤ 0,080	≤ 1,00	≤ 1,00	0,040	0,015	16,00-18,00	---	0,9-1,25	---	---	Architectural exteriors, trims & profiles
	1.4513	X2CrMoTi17-1	---	540	≤ 0,025	≤ 1,00	≤ 1,00	0,040	0,015	16,00-18,00	---	0,8-1,4	0,3-0,6	---	Exhaust systems
	1.4512	X2CrTi12	409 L	800	≤ 0,030	≤ 1,00	≤ 1,00	0,040	0,015	10,50-11,70	---	---	6(C+N)-0,65	---	Exhaust systems
	1.4509	X2CrTiNb18	---	845	≤ 0,030	≤ 1,00	≤ 1,00	0,040	0,015	17,50-18,50	---	---	0,10-0,60	Nb=(0,3+3C)-1,0	Exhaust systems
MARTENSITIC	1.4028	X30Cr13	420	360	0,28-0,35	≤ 1,00	≤ 1,00	≤ 0,040	≤ 0,015	12,50-14,00	---	---	---	---	Cutting tools
	1.4034	X46Cr13	420	370	0,43-0,48	≤ 1,00	≤ 1,00	≤ 0,040	≤ 0,015	12,50-14,00	---	---	---	---	Cutting tools, knife blades
	1.4116	X50CrMoV15	420 MoV	380	0,45-0,55	≤ 1,00	≤ 1,00	≤ 0,040	≤ 0,015	14,00-15,00	---	0,50-0,80	---	V=0,10-0,20	High quality knife blades
	1.4006	X12Cr13	410	410	0,08-0,15	≤ 1,00	≤ 1,00	≤ 0,040	≤ 0,015	11,50-13,50	---	---	---	---	Cutlery