

Genel Özellikleri

General Specification

Paslanmaz Çelik

Stainless Steel

Paslanmaz Çelik Genel Özellikleri

Çelik Tipleri		Tipik Kimyasal Bileşim						Uluslararası Tanımlar			Mekanik Özellikler				Paslanma Dayanımı				Soğuk Şekil Alabilme	Kaynak Edebilme	Çelik Tipleri		
Gruplar	Kalite	C	Cr	Ni	Mo	Diğer	AISI	EN 10088 Numara	EN 10088 İsim	Akma % 0.2 Rp 0.2	Akma % 1 Rp 1	Kopma Dayanımı Rm	Uzama A50	Genel	Pitting	Gerilim Altında	Isı Dayanımı	Kalite			Gruplar		
Ferritik	Krom	410 S	0.03	12.5	-	-	-	410S	1.4000	X6Cr13	250	-	415	20	○	○	+	○	+	+	410 S	Chromium	Ferritic
		STR 12	0.02	11	0.5	-	-	-	1.4003	X2CrNi12	320	340	450	20	○	○	+	○	++	++	STR 12		
		409	0.01	11.5	-	-	Ti=0.2	409	1.4512	X2CrTi12	220	-	400	30	○	○	+	○	+++	++	409		
		409 Li	0.01	11.5	-	-	Ti=0.2	409	1.4512	X2CrTi12	220	240	390	30	○	○	+	○	+++	++	409 Li		
		430	0.05	16.3	-	-	-	430	1.4016	X6Cr17	270	-	450	20	+	+	++	+	+++	+	430		
		430 Ti	0.02	16.5	-	-	Ti=0.35	-	1.4520	X2CrTi17	280	-	450	24	+	++	++	+	+++	++	430 Ti		
		439-439 M	0.02	16-18	-	-	Ti+Nb	439	1.4510	X3CrTi17	280	-	450	24	+	++	++	+	+++	++	439-439 M		
		430 Nb	0.02	16.5	-	-	Nb=0.35	-	1.4511	X3CrNb17	280	-	450	24	+	+	++	+	++	++	430 Nb		
441 Li	0.02	18	-	-	Nb,Ti	-	1.4509	X2CrTiNb18	260	-	450	28	+	++	++	++	++	++	441 Li				
Krom Molibden	434	0.04	17	-	0.9	-	434	1.4113	X6CrMo17-1	370	-	540	27	++				++	+	434	Chromium Molybdenum		
	436 Li	0.02	18	-	1.2	Ti, N	-	1.4513	X2CrMoTi17-1	290	-	450	27	++	++	++	+	+++	++	436 Li			
	444	0.02	18	-	2.1	N+Ti	-	1.4521	X2CrMoTi18-2	300	-	420	28	+++	+++	+++	+	+++	++	444			
Martenzitik		420	0.45	13	-	-	-	420	1.4034	X46Cr13	340	-	600	24	+	+	+	+	○○○	○○○	420	Martensitic	
		420 J2	0.35	13	-	-	-	420	1.4028	X30Cr13	300	-	550	25	○	○	○	○	○	○	420 J2		
Ostenitik	Krom Nikel	304	0.05	18.3	8.1	-	-	304	1.4301	X5CrNi18-10	235	265	550	45	++	++	○	++	++	+++	304	Chromium Nickel	
		304 MS	0.05	18.3	8.6	-	-	304	1.4301	X5CrNi18-10	235	265	550	45	++	++	○	++	+++	+++	304 MS		
		304 PS	0.05	18.3	9	-	-	304	1.4301	X5CrNi18-10	235	265	550	45	++	++	○	++	+++	+++	304 PS		
		304L	0.03	18.3	10	-	-	304L	1.4306	X2CrNi19-11	235	265	520	45	++	++	○	++	+++	+++	304L		
		301	0.08	17	7	-	-	301	1.4310	X10CrNi18-8	250	290	600	40	+	+	○	++	++	++	301		
		301LN	0.025	17.3	6.7	-	N=0.14	-	1.4318	X2CrNi18-7	330	370	690	40	++	++	○	++	++	+++	301LN		
	Krom Nikel Molibden	321	0.05	17.3	9.2	-	Ti=0.35	321	1.4541	X6CrNiTi18-10	245	275	540	45	++	++	○	++	++	+++	321		
		316	0.05	17	10.7	2.2	-	316	1.4401	X5CrNiMo17-12-2	255	-	550	45	+++	+++	○	+	++	+++	316		
		316L	0.02	17	11.2	2.2	-	316L	1.4404	X2CrNiMo17-12-2	255	-	550	45	+++	+++	○	+	+++	+++	316L		
		316LT	0.02	17	11.2	2.2	S=0.015	316L	1.4404	X2CrNiMo17-12-2	255	-	550	45	+++	+++	○	+	+++	+++	316LT		
		316SLD	0.02	17.5	13	2.8	-	316L	1.4435	X2CrNiMo18-14-3	255	-	550	45	++++	++++	○	+	+++	+++	316SLD		
	Isıya Dayanıklı	316Ti	0.04	17	11	2.2	Ti=0.35	316Ti	1.4571	X6CrNiMoTi17-12-2	240	-	540	40	+++	+++	○	+	++	+++	316Ti		
		304H	0.06	18.3	8.7	-	N=0.10(max)	304H	1.4948	X6CrNi18-10	235	265	550	45	++		○	++	++	+++	304H		
		321H (*)	0.05	17.3	9.2	-	Ti=0.35	321H	1.4878	X8CrNiTi18-10	210	230	500	40	++		○	++	++	++	321H (*)		
		4828	0.05	19.3	11.2	-	Si=2	-	(1.4828)		230	260	550	35	+		○	+++	+	+++	4828		
		309S (*)	0.05	23	13.5	-	-	309S	1.4833	X12CrNi23-13	210	250	500	33	++		○	+++	+	+++	309S (*)		
	310(*)	0.05	25	20	-	Si=0.6	310S	(1.4845)	X8CrNi25-21	210	250	500	33	++		○	++++	+	++	310(*)			
Family	Grade	C	Cr	Ni	Mo	Diğer	AISI	EN 10088 Number	EN 10088 Name	Rp 0.2 0.2 % Yield	Rp 1 1 % Yield	Rm Tensile Strength	A50 Elongation	General	Pitting	SCC	Heat Resistance	Cold Formability	Weldability	Grade	Family		
Steels Classed		Typical Composition					International Designations			Mechanical Properties AT 20°C - Minimum Values (Mpa)				Corrosion Resistance				Cold Formability	Weldability	Steels Classed			

* Kimyasal bileşim ve mekanik özellikler EN 10095'e göredir.

* Chemical composition and mechanical properties according to EN 10095

○ Uygulanamaz / Gereki değil
Non applicable / Not required

○○○ Zor
Difficult

+ Kabul edilebilir dayanım
Acceptable resistance

++ İyi
Good

+++ Mükemmel
Excellent

++++ Bu özelliği geliştirmek için tasarlanmıştır
Designed to improve this property