

Stainless Spring Steel Strip

Tolerances according to DIN EN ISO 9445-2:2010-06 Chart 1 (fine tolerance) or as agreed

Grade No.*		Grade Name					Standard				Tensile Strength (Rm)			Comparable
C	Si	Mn	P	S	Cr	Ni	Mo	Ti	Al	N	sonst.			
1.4301		X 5 CrNi 18-10					EN 10151 (EN 10088-2)				700 - max. 1300 MPa			AISI 304
≤ 0,070	≤ 1,000	≤ 2,000	≤ 0,045	≤ 0,015	17,5-19,5	8,00-10,50	-	-	-	≤ 0,11				
1.4310		X 10 CrNi 18-8					EN 10151 (EN 10088-2)				800 - max. 2300 MPa			AISI 301
0,05-0,15	≤ 2,000	≤ 2,000	≤ 0,045	≤ 0,015	16,0-19,0	6,00-9,50	0,50-0,80	-	-	≤ 0,11				
1.4310Mo		X 10 CrNi 18-8					EN 10151 (EN 10088-2)				800 - max. 2300 MPa			AISI 301
0,05-0,15	1,00-2,00	≤ 2,000	≤ 0,045	≤ 0,015	16,0-19,0	6,00-9,50	0,50-0,80	-	-	≤ 0,11				
1.4401		X 5 CrNiMo 17-12-2					EN 10151 (EN 10088-2)				750 - max. 1300 MPa			AISI 316
≤ 0,070	≤ 1,000	≤ 2,000	≤ 0,045	≤ 0,015	16,5-18,5	10,0-13,0	2,00-2,50	-	-	≤ 0,11				
1.4404		X 2 CrNiMo 17-12-2					EN 10151 (EN 10088-2)				750 - max. 1300 MPa			AISI 316L
≤ 0,030	≤ 1,000	≤ 2,000	≤ 0,045	≤ 0,015	16,5-18,5	10,0-13,0	2,00-2,50	-	-	≤ 0,11				
1.4568		X 7 CrNiAl 17-7					EN 10151 (EN 10088-2)				800 - max. 1800 MPa			AISI 631 / 17-7PH
≤ 0,090	≤ 0,700	≤ 1,000	≤ 0,040	≤ 0,015	16,0-18,0	6,50-7,80	-	-	0,70-1,50	-				

* More steel grades and tensile strengths are available on request

Please note: For further information please check the German Industry Standard (DIN) or the European Standard (EN)
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Hardened Spring Steel Strip

Tolerances according to DIN EN 10140:2006-09 or as agreed

Grade Name*			Grade No.		Standard				Tensile Strength (Rm)			Comparable
C	Si	Mn	P	S	Cr	Ni	Mo	Ti	Al	N	sonst.	
C55S			1.1204		EN 10132-4				1000 - max. 1700 MPa			AISI 1055 SAE
0,52-0,60	0,15-0,35	0,60-0,90	≤ 0,025	≤ 0,025	≤ 0,40	≤ 0,40	≤ 0,10	-	-	-	-	
C60S			1.1211		EN 10132-4				1150 - max. 1750 MPa			AISI 1064 SAE
0,57-0,65	0,15-0,35	0,60-0,90	≤ 0,025	≤ 0,025	≤ 0,40	≤ 0,40	≤ 0,10	-	-	-	-	
C67S			1.1231		EN 10132-4				1200 - max. 1900 MPa			AISI 1070 SAE
0,65-0,73	0,15-0,35	0,60-0,90	≤ 0,025	≤ 0,025	≤ 0,40	≤ 0,40	≤ 0,10	-	-	-	-	
C75S			1.1248		EN 10132-4				1200 - max. 1900 MPa			AISI 1075 SAE
0,70-0,80	0,15-0,35	0,60-0,90	≤ 0,025	≤ 0,025	≤ 0,40	≤ 0,40	≤ 0,10	-	-	-	-	
C85S			1.1269		EN 10132-4				1200 - max. 2000 MPa			AISI 1086 SAE
0,80-0,90	0,15-0,35	0,40-0,70	≤ 0,025	≤ 0,025	≤ 0,40	≤ 0,40	≤ 0,10	-	-	-	-	
C100S			1.1274		EN 10132-4				1200 - max. 2200 MPa			AISI 1095 SAE
0,95-1,05	0,15-0,35	0,30-0,60	≤ 0,025	≤ 0,025	≤ 0,40	≤ 0,40	≤ 0,10	-	-	-	-	

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Unhardened Spring Steel Strip

Tolerances according to DIN EN 10140:2006-09 or as agreed

Grade Name*		Grade No.			Standard				Tensile Strength (Rm)			Comparable
C	Si	Mn	P	S	Cr	Ni	Mo	Ti	Al	N	sonst.	
C55S		1.1204			EN 10132-4				max. 600 MPa			AISI 1055
0,52-0,60	0,15-0,35	0,60-0,90	≤ 0,025	≤ 0,025	≤ 0,40	≤ 0,40	≤ 0,10	-	-	-	-	SAE
C60S		1.1211			EN 10132-4				max. 620 MPa			AISI 1064
0,57-0,65	0,15-0,35	0,60-0,90	≤ 0,025	≤ 0,025	≤ 0,40	≤ 0,40	≤ 0,10	-	-	-	-	SAE
C67S		1.1231			EN 10132-4				max. 640 MPa			AISI 1070
0,65-0,73	0,15-0,35	0,60-0,90	≤ 0,025	≤ 0,025	≤ 0,40	≤ 0,40	≤ 0,10	-	-	-	-	SAE
C75S		1.1248			EN 10132-4				max. 640 MPa			AISI 1075
0,70-0,80	0,15-0,35	0,60-0,90	≤ 0,025	≤ 0,025	≤ 0,40	≤ 0,40	≤ 0,10	-	-	-	-	SAE
C85S		1.1269			EN 10132-4				max. 670 MPa			AISI 1086
0,80-0,90	0,15-0,35	0,40-0,70	≤ 0,025	≤ 0,025	≤ 0,40	≤ 0,40	≤ 0,10	-	-	-	-	SAE
C100S		1.1274			EN 10132-4				max. 690 MPa			AISI 1095
0,95-1,05	0,15-0,35	0,30-0,60	≤ 0,025	≤ 0,025	≤ 0,40	≤ 0,40	≤ 0,10	-	-	-	-	SAE
125Cr2		1.2002			EN 10132-4				max. 750 MPa			W5 ASTM A
1,20-1,30	0,15-0,35	0,25-0,40	≤ 0,025	≤ 0,025	0,40-0,60	≤ 0,40	≤ 0,10	-	-	-	-	686

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Stainless Precision Steel Strip

Tolerances according to DIN EN ISO 9445-2:2010-06 Chart 1 (fine tolerance) or as agreed

Grade No.*		Grade Name					Standard				Tensile Strength (Rm)			Comparable
C	Si	Mn	P	S	Cr	Ni	Mo	Ti	Al	N	sonst.			
1.4016		X 6 Cr 17					EN 10088-2				450 - max. 600 MPa			AISI 430
≤ 0,080	≤ 1,000	≤ 1,000	≤ 0,040	≤ 0,015	16,0-18,0	-	-	-	-	-				
1.4510		X 3 CrTi 17					EN 10088-2				420 - max. 600 MPa			AISI 439 / 430Ti
≤ 0,050	≤ 1,000	≤ 1,000	≤ 0,040	≤ 0,015	16,0-18,0	-	-	≤ 0,800	-	-				
1.4512		X 2 CrTi 12					EN 10088-2				380 - max. 560 MPa			AISI 409
≤ 0,030	≤ 1,000	≤ 1,000	≤ 0,040	≤ 0,015	10,5-12,5	-	-	≤ 0,65	-	-				
1.4521		X 2 CrMoTi 18-2					EN 10088-2				420 - max. 640 MPa			AISI 443
≤ 0,025	≤ 1,000	≤ 1,000	≤ 0,040	≤ 0,015	17,0-20,0	-	1,80-2,50	≤ 0,800	-	≤ 0,03				
1.4021		X 20 Cr 13					EN 10088-2				max. 700 MPa			AISI 420
0,16-0,25	≤ 1,000	≤ 1,500	≤ 0,040	≤ 0,015	12,0-14,0	-	-	-	-	-				
1.4028		X 30 Cr 13					EN 10088-2				max. 740 MPa			AISI 420F
0,26-0,35	≤ 1,000	≤ 1,500	≤ 0,040	≤ 0,015	12,0-14,0	-	-	-	-	-				
1.4034		X 46 Cr 13					EN 10088-2				max. 780 MPa			
0,43-0,50	≤ 1,000	≤ 1,000	≤ 0,040	≤ 0,015	12,5-14,5	-	-	-	-	-				
1.4037		X 65 Cr 13					SEW 400				max. 840 MPa			AEB-L / 13C26
0,58-0,70	≤ 1,000	≤ 1,000	≤ 0,040	≤ 0,015	12,5-14,5	-	-	-	-	-				
1.4122		X 39 CrMo 17-1					EN 10088-2				max. 900 MPa			
0,33-0,45	≤ 1,000	≤ 1,500	≤ 0,040	≤ 0,015	15,5-17,5	≤ 1,00	0,80-1,30	-	-	-				
1.4301		X 5 CrNi 18-10					EN 10088-2				540 - max. 750 MPa			AISI 304
≤ 0,070	≤ 1,000	≤ 2,000	≤ 0,045	≤ 0,015	17,5-19,5	8,00-10,5	-	-	-	≤ 0,10				
1.4303		X 4 CrNi 18-12					EN 10088-2				500 - max. 650 MPa			AISI 305
≤ 0,060	≤ 1,000	≤ 2,000	≤ 0,045	≤ 0,015	17,0-19,0	11,0-13,0	-	-	-	≤ 0,10				
1.4306		X 2 CrNi 19-11					EN 10088-2				520 - max. 700 MPa			AISI 304L
≤ 0,030	≤ 1,000	≤ 2,000	≤ 0,045	≤ 0,015	18,0-20,0	10,0-12,0	-	-	-	≤ 0,10				

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1.4307	X 2 CrNi 18-9			EN 10088-2			450 - max. 700 MPa			AISI 304L
≤ 0,030	≤ 1,000	≤ 2,000	≤ 0,045	≤ 0,015	17,5-19,5	8,00-10,5	-	-	≤ 0,10	-
1.4310	X 10 CrNi 18-8			EN 10088-2			600 - max. 950 MPa			AISI 301
0,05-0,15	≤ 2,000	≤ 2,000	≤ 0,045	≤ 0,015	16,0-19,0	6,00-9,50	≤ 0,80	-	≤ 0,10	-
1.4401	X 5 CrNiMo 17-12-2			EN 10088-2			530 - max. 680 MPa			AISI 316
≤ 0,070	≤ 1,000	≤ 2,000	≤ 0,045	≤ 0,015	16,5-18,5	10,0-13,0	2,00-2,50	-	≤ 0,10	-
1.4404	X 2 CrNiMo 17-12-2			EN 10088-2			530 - max. 680 MPa			AISI 316L
≤ 0,030	≤ 1,000	≤ 2,000	≤ 0,045	≤ 0,015	16,5-18,5	10,0-13,0	2,00-2,50	-	≤ 0,10	-
1.4541	X 6 CrNiTi 18-10			EN 10088-2			520 - max. 720 MPa			AISI 321
≤ 0,080	≤ 1,000	≤ 2,000	≤ 0,045	≤ 0,015	17,0-19,0	9,0-12,0	-	≤ 0,700	-	-
1.4568	X 7 CrNiAl 17-7			EN 10088-2			750 - max. 1030 MPa			AISI 631 / 17-7PH
≤ 0,090	≤ 0,700	≤ 1,000	≤ 0,040	≤ 0,015	16,0-18,0	6,50-7,80	-	-	0,70-1,50	-
1.4571	X 6 CrNiMoTi 17-12-2			EN 10088-2			540 - max. 690 MPa			AISI 316Ti
≤ 0,080	≤ 1,000	≤ 2,000	≤ 0,045	≤ 0,015	16,5-18,5	10,5-13,5	2,00-2,50	≤ 0,700	-	-

* More steel grades and tensile strengths are available on request

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Stainless Steel Strip

Tolerances according to DIN EN ISO 9445-2:2010-06 Chart 2 and 3 or as agreed

Grade No.*		Grade Name					Standard				Tensile Strength (Rm)			Comparable
C	Si	Mn	P	S	Cr	Ni	Mo	Ti	Al	N	sonst.			
1.4016		X 6 Cr 17					EN 10088-2				450 - max. 600 MPa			AISI 430
≤ 0,080	≤ 1,000	≤ 1,000	≤ 0,040	≤ 0,015	16,0-18,0	-	-	-	-	-				
1.4510		X 3 CrTi 17					EN 10088-2				420 - max. 600 MPa			AISI 439 / 430Ti
≤ 0,050	≤ 1,000	≤ 1,000	≤ 0,040	≤ 0,015	16,0-18,0	-	-	≤ 0,800	-	-				
1.4512		X 2 CrTi 12					EN 10088-2				380 - max. 560 MPa			AISI 409
≤ 0,030	≤ 1,000	≤ 1,000	≤ 0,040	≤ 0,015	10,5-12,5	-	-	≤ 0,65	-	-				
1.4521		X 2 CrMoTi 18-2					EN 10088-2				420 - max. 640 MPa			AISI 443
≤ 0,025	≤ 1,000	≤ 1,000	≤ 0,040	≤ 0,015	17,0-20,0	-	1,80-2,50	≤ 0,800	-	≤ 0,03				
1.4021		X 20 Cr 13					EN 10088-2				max. 700 MPa			AISI 420
0,16-0,25	≤ 1,000	≤ 1,500	≤ 0,040	≤ 0,015	12,0-14,0	-	-	-	-	-				
1.4028		X 30 Cr 13					EN 10088-2				max. 740 MPa			AISI 420F
0,26-0,35	≤ 1,000	≤ 1,500	≤ 0,040	≤ 0,015	12,0-14,0	-	-	-	-	-				
1.4034		X 46 Cr 13					EN 10088-2				max. 780 MPa			
0,43-0,50	≤ 1,000	≤ 1,000	≤ 0,040	≤ 0,015	12,5-14,5	-	-	-	-	-				
1.4301		X 5 CrNi 18-10					EN 10088-2				540 - max. 750 MPa			AISI 304
≤ 0,070	≤ 1,000	≤ 2,000	≤ 0,045	≤ 0,015	17,5-19,5	8,00-10,5	-	-	-	≤ 0,10				
1.4303		X 4 CrNi 18-12					EN 10088-2				500 - max. 650 MPa			AISI 305
≤ 0,060	≤ 1,000	≤ 2,000	≤ 0,045	≤ 0,015	17,0-19,0	11,0-13,0	-	-	-	≤ 0,10				
1.4306		X 2 CrNi 19-11					EN 10088-2				520 - max. 700 MPa			AISI 304L
≤ 0,030	≤ 1,000	≤ 2,000	≤ 0,045	≤ 0,015	18,0-20,0	10,0-12,0	-	-	-	≤ 0,10				
1.4307		X 2 CrNi 18-9					EN 10088-2				450 - max. 700 MPa			AISI 304L
≤ 0,030	≤ 1,000	≤ 2,000	≤ 0,045	≤ 0,015	17,5-19,5	8,00-10,5	-	-	-	≤ 0,10				
1.4310		X 10 CrNi 18-8					EN 10088-2				650 - max. 950 MPa			AISI 301
0,05-0,15	≤ 2,000	≤ 2,000	≤ 0,045	≤ 0,015	16,0-19,0	6,00-9,50	≤ 0,80	-	-	≤ 0,10				

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1.4401				X 5 CrNiMo 17-12-2	EN 10088-2				530 - max. 680 MPa	AISI 316	
≤ 0,070	≤ 1,000	≤ 2,000	≤ 0,045	≤ 0,015	16,5-18,5	10,0-13,0	2,00-2,50	-	-	≤ 0,10	-
1.4404				X 2 CrNiMo 17-12-2	EN 10088-2				530 - max. 680 MPa	AISI 316L	
≤ 0,030	≤ 1,000	≤ 2,000	≤ 0,045	≤ 0,015	16,5-18,5	10,0-13,0	2,00-2,50	-	-	≤ 0,10	-
1.4541				X 6 CrNiTi 18-10	EN 10088-2				520 - max. 720 MPa	AISI 321	
≤ 0,080	≤ 1,000	≤ 2,000	≤ 0,045	≤ 0,015	17,0-19,0	9,0-12,0	-	≤ 0,700	-	-	-
1.4568				X 7 CrNiAl 17-7	EN 10088-2				750 - max. 1030 MPa	AISI 631 / 17-7PH	
≤ 0,090	≤ 0,700	≤ 1,000	≤ 0,040	≤ 0,015	16,0-18,0	6,50-7,80	-	-	0,70-1,50	-	-
1.4571				X 6 CrNiMoTi 17-12-2	EN 10088-2				540 - max. 690 MPa	AISI 316Ti	
≤ 0,080	≤ 1,000	≤ 2,000	≤ 0,045	≤ 0,015	16,5-18,5	10,5-13,5	2,00-2,50	≤ 0,700	-	-	-

* More steel grades and tensile strengths are available on request

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Colled Rolled Steel Strip

Tolerances according to DIN EN 10140:2006-09 or as agreed

Grade Name*		Grade No.				Standard				Tensile Strength (Rm)			Comparable
C	Si	Mn	P	S	Cr	Ni	Mo	Ti	Al	N	sonst.		
DC01		1.0330				EN 10139				270 - max. 390 MPa (LC)			
≤ 0,12	-	≤ 0,60	≤ 0,045	≤ 0,045	-	-	-	-	-	-	-	-	
DC03		1.0347				EN 10139				270 - max. 370 MPa (LC)			
≤ 0,10	-	≤ 0,45	≤ 0,035	≤ 0,035	-	-	-	-	-	-	-	-	
DC04		1.0338				EN 10139				270 - max. 350 MPa (LC)			
≤ 0,08	-	≤ 0,40	≤ 0,030	≤ 0,030	-	-	-	-	-	-	-	-	

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