



THIELE Stainless Steel Chains





Rust & Acid Resistant Chains

Material 1.4401 / AISI 316

Dimension	Article-No.	Plant Standard	W.L.L. [kg max.]	Test Force [kN min.]	Breaking Force [kN min.]	Standard	Nominal Size		Pitch		Width		Weight app. [kgs/m]
							d [mm]	Tol.± [mm]	p [mm]	Tol.± [mm]	b ₁ [mm min.]	b ₂ [mm max.]	
2x12	Z02607	0084	–	–	–	DIN 5685 ¹⁾	2	0,10	12	+0,6 / -0,6	3,6	–	0,07
2x22	Z02587	0084	–	–	–	DIN 5685 ¹⁾	2	0,10	22	+1,1 / -1,1	3,6	–	0,06
3x16	Z02658	0084	–	–	–	DIN 5685 ¹⁾	3	0,15	16	+0,8 / -0,8	5,4	–	0,16
3x26	Z02485	0084	–	–	–	DIN 5685 ¹⁾	3	0,15	26	+1,3 / -1,3	5,4	–	0,14
4x16	Z02604	0083	200	5	8	DIN 766	4	0,20	16	+0,3 / -0,2	4,8	13,6	0,31
4x19	Z02634	0084	–	–	–	DIN 5685 ¹⁾	4	0,20	19	+1,0 / -1,0	7,2	–	0,30
4x32	Z02824	T0082	100	2,5	6	DIN 763 ¹⁾	4	0,20	32	+1,0 / -1,0	7,2	16,8	0,26
5x18,5	Z02484	0083	320	8	13	DIN 766	5	0,20	18,5	+0,4 / -0,2	6,0	17,0	0,51
5x21	Z02743	0084	–	–	–	DIN 5685 ¹⁾	5	0,25	21	+1,1 / -1,1	9,0	–	0,48
5x35	Z02515	0082	160	4	10	DIN 763 ¹⁾	5	0,25	35	+1,1 / -1,1	9,0	21,0	0,41
6x18,5	Z02633	0083	400	10	16	DIN 766	6	0,20	18,5	+0,4 / -0,2	7,2	20,4	0,79
6x42	Z02593	0082	200	5	12,5	DIN 763 ¹⁾	6	0,20	42	+1,3 / -1,3	10,8	25,2	0,59
7x22	Z02710	0083	630	16	25	DIN 766	7	0,30	22	+0,4 / -0,2	8,4	23,8	1,06
8x24	Z02483	0083	800	20	32	DIN 766	8	0,30	24	+0,4 / -0,2	9,6	27,2	1,41
8x52	Z02530	0082	400	10	25	DIN 763 ¹⁾	8	0,30	52	+1,6 / -1,6	14,4	33,6	1,08
10x28	Z02548	0083	1250	32	50	DIN 766	10	0,40	28	+0,5 / -0,3	12,0	36,0	2,28
13x36	Z02662	0083	2000	50	80	DIN 766	13	0,50	36	+0,6 / -0,3	15,6	47,0	3,87
13x82	Z02631	0082	1000	25	63	DIN 763 ¹⁾	13	0,50	82	+2,5 / -2,5	23,4	54,6	2,95
16x45	Z02711	0083	3200	40	128	DIN 766	16	0,60	45	+0,8 / -0,4	19,2	58,0	2,87

Material 1.4571 / AISI 316Ti

Dimension	Article-No.	Plant Standard	W.L.L. [kg max.]	Test Force [kN min.]	Breaking Force [kN min.]	Standard	Nominal Size		Pitch		Width		Weight app. [kgs/m]
							d [mm]	Tol.± [mm]	p [mm]	Tol.± [mm]	b ₁ [mm min.]	b ₂ [mm max.]	
5x18,5	F00050	0083	320	8	13	DIN 766	5	0,20	18,5	+0,4 / -0,2	6,0	17,0	0,51
6x18,5	F00075	0083	400	10	16	DIN 766	6	0,20	18,5	+0,4 / -0,2	7,2	20,4	0,79
7x22	F000791	0083	630	16	25	DIN 766	7	0,30	22	+0,4 / -0,2	8,4	23,8	1,06
8x24	F00163	0083	800	20	32	DIN 766	8	0,30	24	+0,4 / -0,2	9,6	27,2	1,41
10x28	F00285	0083	1250	32	50	DIN 766	10	0,40	28	+0,5 / -0,3	12,0	36,0	2,28
10x65	F01138	0082	630	16	25	DIN 763 ¹⁾	10	0,50	65	+2,0 / -2,0	18,0	42,0	1,68
13x36	F00385	0083	2000	50	80	DIN 766	13	0,50	36	+0,6 / -0,3	15,6	47,0	3,87
13x82	F01154	0082	1000	25	40	DIN 763 ¹⁾	13	0,50	82	+2,5 / -2,5	23,4	54,6	2,87
16x45	F00485	0083	3200	80	128	DIN 766	16	0,60	45	+0,8 / -0,4	19,2	58,0	5,82

Material 1.4462 (Duplex)

Dimension	Article-No.	Plant Standard	W.L.L. [kg max.]	Test Force [kN min.]	Breaking Force [kN min.]	Standard	Nominal Size		Pitch		Width		Weight app. [kgs/m]
							d [mm]	Tol.± [mm]	p [mm]	Tol.± [mm]	b ₁ [mm min.]	b ₂ [mm max.]	
5x18,5	F00077	0083	560	14	22	DIN 766	5	0,20	18,5	+0,4 / -0,2	6,0	17,0	0,51
6x18,5	F00079	0083	800	20	32	DIN 766	6	0,20	18,5	+0,4 / -0,2	7,2	20,4	0,79
7x22	F00080	0083	1100	28	44	DIN 766	7	0,30	22	+0,4 / -0,2	8,4	23,8	1,06
8x24	F00165	0083	1400	35	55	DIN 766	8	0,30	24	+0,4 / -0,2	9,6	27,2	1,41
10x28	F00284	0083	2200	54	87	DIN 766	10	0,40	28	+0,5 / -0,3	12,0	36,0	2,28
10x65	F01144	0082	1200	30	48	DIN 763 ¹⁾	10	0,50	65	+2,0 / -2,0	18,0	42,0	1,68
13x36	F00388	0083	3800	95	150	DIN 766	13	0,50	36	+0,6 / -0,3	15,6	47,0	3,87
13x82	F01145	0082	2000	50	80	DIN 763 ¹⁾	13	0,50	82	+2,5 / -2,5	23,4	54,6	2,87
16x45	F004651	0083	5800	145	230	DIN 766	16	0,60	45	+0,8 / -0,4	19,2	58,0	5,82

¹⁾Do not use for lifting or carrying purposes and not as chain slings!



Rust & Acid Resistant Chains

Rust & Acid Resistant Chains are mostly used at environmental processes with corrosive or aggressive influences, which may be found e.g. in the chemical industry, food industry, medical and pharmaceutical industry and ship building and shipping industry. Due to their high value finish, they are also used in architecture applications.

The materials 1.4401 (V4A), 1.4571 (V4A) and 1.4462 (DUPLEX) distinguish themselves through their corrosion resistance and mechanical qualities. The material 1.4571 differs to material 1.4401, due to the addition of titan through a higher resistance against intergranular corrosion (EN10088-3, Tab. 10). The corrosion resistance is classified by the PRE number (Pitting Resistance Equivalent) as per standard VG81249.

The tables below show that the material DUPLEX is especially marking off for a high resistance in sea water. In particular, the higher resistance in environments with high chlorinate-ions concentrations and higher temperatures are marking off, which one can find e.g. in the Southern Sea or Mediterranean areas. The higher strength up to 30%, at the same time has the advantage of lower weight, when selecting chains. Consequently, this material has an outstanding capability for all purposes especially as anchor chains (better distribution in the chain box) or for conveying systems (better gliding).

Material	PRE No.
1.4401	23,10 – 26,75
1.4571	23,10 – 28,50
DUPLEX	30,85 – 38,07

Note: as per VG 81249

PRE No.	Highest temperature for resistance in salt water
35	60° C
30	40° C
24	25° C
20	15° C
15	0° C